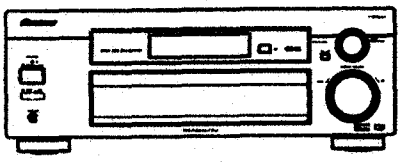
Pioneer sound.vision.soul

Service Manual



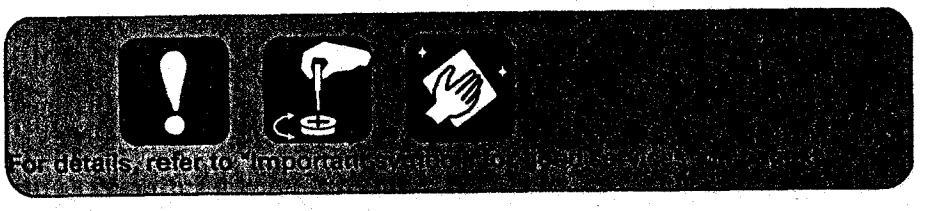
ORDER NO.
RRV2607

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D711-K
VSX-D711-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
VSX-D711-K	MVXJI	AC230V	
VSX-D711-K	MYXJIEW	AC220-230V	
VSX-D711-K	MYXJIGR	AC220-230V	
VSX-D711-S	MYXJIEW	AC220-230V	



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

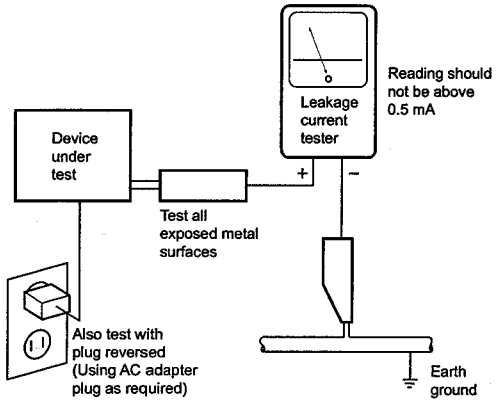
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Leakage current tester
Reading should not be above 0.5 mA
Device under test
+
−
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments

To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning

For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws

To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts

Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount.For replacement parts or tools, the prescribed ones should be used.

VSX-D711-K, VSX-D711-S

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1. SPECIFICATIONS

Amplifier Section

Continuous Power Output (STEREO mode)
Front ..... 100 W per channel (DIN 1kHz, THD 1.0 %, 8 Ω)

Continuous Power Output
Front ..... 100 W per channel (1kHz, THD 1.0 %, 8 Ω)
Center ..... 100 W (1kHz, THD 1.0 %, 8 Ω)
Surround ..... 100 W per channel (1kHz, THD 1.0 %, 8 Ω)

- Above specifications are applicable when the power supply is 230V.

Input (Sensitivity/Impedance)
CD, VCR/DVR, CD-R/TAPE/MD, DVD/LD, TV/SAT ... 200 mV/47 kΩ

Frequency Response
CD, VCR/DVR, CD-R/TAPE/MD, DVD/LD,
TV/SAT ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$dB

Output (Level/Impedance)
VCR/DVR REC, CD-R/TAPE/MD REC ..... 200 mV/2.2 kΩ

Tone Control
BASS ..... ± 6 dB (100 Hz)
TREBLE ..... ± 6 dB (10 kHz)
LOUDNESS ..... +9 dB/+9 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio [DIN (Continuous rated power output/50 mW)]
CD, VCR/DVR, CD-R/TAPE/MD,DVD/LD, TV/SAT ..... 96 dB

Video Section

Input (Sensitivity/Impedance)
VCR/DVR, DVD/LD, TV/SAT ..... 1 Vp-p/75 Ω

Output (Level/Impedance)
VCR/DVR ..... 1 Vp-p/75 Ω

Frequency Response
VCR/DVR, DVD/LD,TV/SAT ⇨ MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio ..... 55 dB

Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic" and the double D symbol are trademarks of Dolby Laboratorories.

"DTS" ,"DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater Systems, Inc.

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity ..... Mono:13.2 dBf, IHF (1.3 µV/ 75 Ω)
50 dB Quieting Sensitivity ..... Mono: 20.2 dB
Stereo: 38.6 dBf
Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)
Signal-to-Noise Ratio (DIN) ..... Mono: 62 dB
Stereo: 58 dB
Distortion ..... Stereo: 0.5 % (1 kHz)
Alternate Channel Selectivity ..... 60 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (±1 dB)
Antenna Input (DIN) ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Selectivity ..... 25 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

Miscellaneous

Power Requirements
UK model ..... AC 230 V, 50/60 Hz
European model ..... AC 220-230 V, 50/60 Hz
Power Consumption
VSX-D711 ..... 250W
In Standby ..... 1 W
Dimensions ..... 420 (W) x 158 (H) x 401 (D) mm
Weight (without package) ..... 10 kg

Furnished Parts
AM loop antenna 1
FM wire antenna 1
Dry cell batteries (AA size IEC R6P) 2
Remote control 1
Operating instructions 1

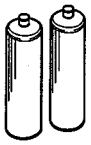
Note

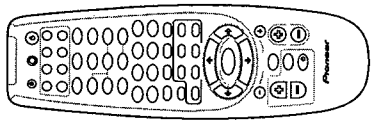
Specifications and the design are subject to possible modifications without notice, due to improvements.

Accessories

AM loop antenna
(ATB7009)

FM wire antenna
(ADH7005)

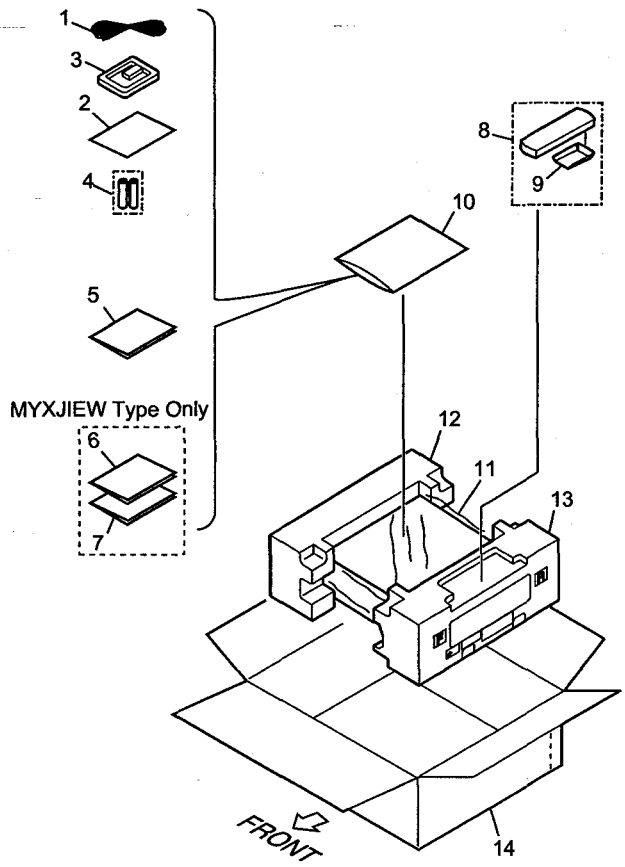

AA size IEC R6P
Dry cell batteries (x2)


Remote control unit
(XXD3042)

2. EXPLODED VIEWS AND PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

2.1 PACKING



(1) PACKING PARTS LIST

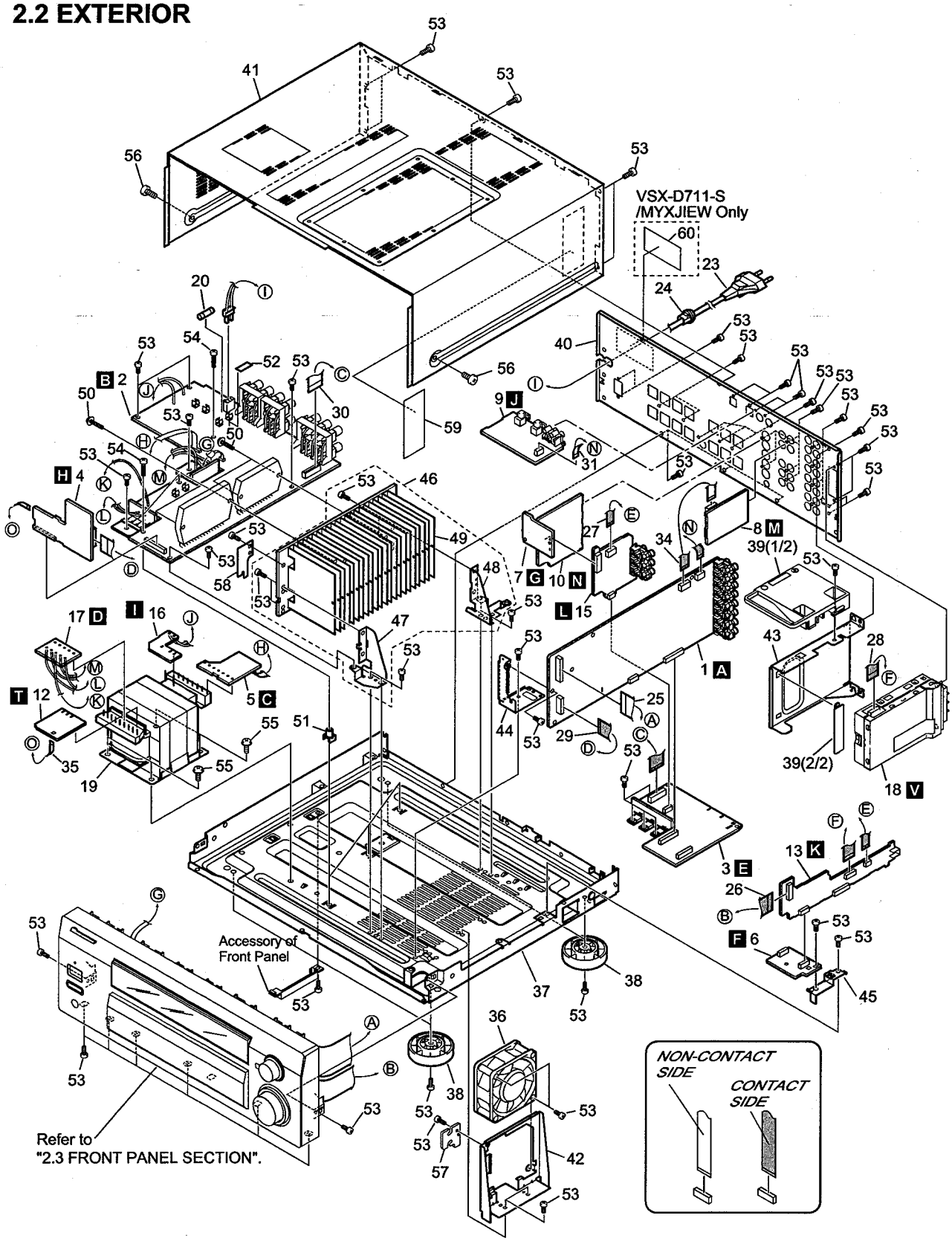
Mark	No.	Description	Part No.
	1	FM Wire Antenna	ADH7005
NSP	2	Warranty Card	ARY7022
	3	AM Loop Antenna	ATB7009
NSP	4	Dry Cell Batteries(AA/R6P)	VEM-013
	5	Operating Instructions (English/German)	XRE3059
	6	Operating Instructions (French/Italian)	See Contrast table (2)
	7	Operating Instructions (Dutch/Spanish)	See Contrast table (2)
	8	Remote Control	XXD3042
	9	Battery Cover	XZA3002
NSP	10	Polyethylene Bag	Z21-038
	11	Packing Sheet	AHG7069
	12	Left Pad R5	XHA3032
	13	Right Pad R5	XHA3033
	14	Packing Case	See Contrast table (2)

(2) CONTRAST TABLE

VSX-D711-K/MVXJI, /MYXJIEW, /MYXJIGR and VSX-D711-S/MYXJIEW are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-D711-K /MVXJI	VSX-D711-K /MYXJIEW	VSX-D711-K /MYXJIGR	VSX-D711-S /MYXJIEW	
	6	Operating Instructions(French/Italian)	Not used	XRC3060	Not used	XRC3060	
	7	Operating Instructions(Dutch/Spanish)	Not used	XRC3071	Not used	XRC3071	
	14	Packing Case	XHD3206	XHD3206	XHD3206	XHD3294	

2.2 EXTERIOR


VSX-D711-S
/MYXJIEW Only
Accessory of
Front Panel
Refer to
"2.3 FRONT PANEL SECTION".
NON-CONTACT
SIDE
CONTACT
SIDE

(1) EXTERIOR PARTS LIST

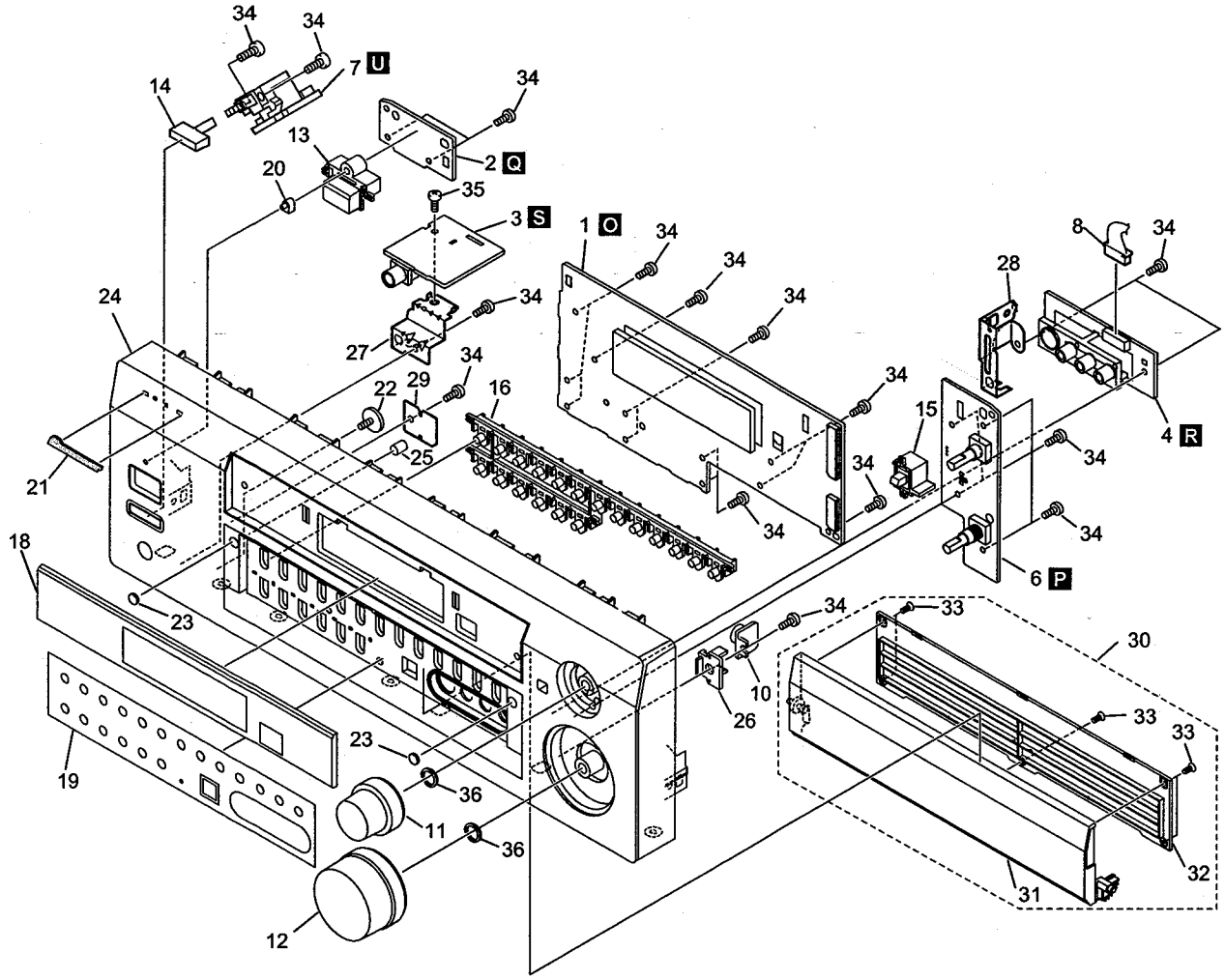
Mark	No.	Description	Part No.
	1	D.D & INPUT ASSY	XWX3047
	2	AMP&PRIMARY ASSY	XWZ3537
	3	REGULATOR ASSY	XWZ3545
	4	AMP INPUT ASSY	XWZ3550
	5	TRANS2 ASSY	XWZ3558
	6	HASHIGETA ASSY	XWZ3567
	7	BOARD TO BOARD ASSY	XWZ3575
	8	6CH IN ASSY	XWZ3507
	9	DIGITAL IN ASSY	XWZ3518
	10	S. VIDEO ASSY	XWZ3522
	11	• • • • •	
	12	TRANS4 ASSY	XWZ3526
	13	KAWA ASSY	XWZ3529
	14	• • • • •	
	15	VIDEO ASSY	XWZ3584
NSP	16	TRANS1 ASSY	XWZ3553
NSP	17	TRANS3 ASSY	XWZ3561
	18	FM/AM TUNER MODULE	AXQ7232
⚠	19	Power Transformer (T1)	XTS3046
⚠	20	FU1(T2.5A)	REK1026
	21	• • • • •	
	22	• • • • •	
⚠	23	AC Power Cord	See Contrast table (2)
	24	Cord Stopper	CM-22B
	25	28P F•F•C/30V (J31) (DD&INPUT CN102 – FRONT CN402)	XDD3097
	26	17P F•F•C/30V (J32) (KAWA CN5001 – FRONT CN401)	XDD3098
	27	7P F•F•C/30V (J33) (KAWA CN5004 – VIDEO CN503)	XDD3099
	28	13P F•F•C/30V (J34) (KAWA CN5005 – FM/AM TUNER CN201)	XDD3100
	29	19P F•F•C/30V (J35) (DD&INPUT CN106 – AMP INPUT CN254)	XDD3101
	30	23P F•F•C/30V (J36) (AMP&PRIMARY CN53 – REGULATOR CN801)	XDD3102
	31	7P F•F•C/30V (J37) (DD&INPUT CN9101 – DIGITAL IN CN1901)	XDD3103
	32	• • • • •	
	33	• • • • •	
	34	9P F•F•C/30V (J48) (DD&INPUT CN104 – 6CH IN CN307)	XDD3106
	35	3P F•F•C/30V (J22) (AMP INPUT CN251 – TRANS4 CN891)	XDD3107
⚠	36	Fan Motor	XXM3002
NSP	37	Under Base 409	ANA7094
	38	Insulator	PNW2766
	39	FFC Cover R5	XMR3047
	40	Rear Panel 711/MY	XNC3144
	41	Bonnet D510	See Contrast table (2)
	42	Fan Holder R4	XNG3040
	43	Tuner Shield R5	XNG3072
	44	PCB Angle R5	XNG3073
	45	Reg Support R5	XNG3074
NSP	46	Heat Sink Assy 0.4*40	XNH3023
	47	Heat Sink Angle F	ANG7251
	48	Heat Sink Angle R	ANG7252
	49	Heat Sink	XNH3022
	50	Screw 3x23	ABA7043
	51	PCB Mold	AMR2533
NSP	52	Fuse Card	AAX7277
	53	Screw	BBZ30P080FMC
	54	Screw	BBZ30P200FMC
	55	Screw	FBT40P080FZK
	56	Screw	See Contrast table (2)
NSP	57	Binder Assy	XWZ3571
NSP	58	Holder Assy	XWZ3574
	59	Tuner Sheet MY	XEC3031
NSP	60	N Label 711S/MY	See Contrast table (2)

(2) CONTRAST TABLE

VSX-D711-K/MVXJI, /MYXJIEW, /MYXJIGR and VSX-D711-S/MYXJIEW are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-D711-K /MVXJI	VSX-D711-K /MYXJIEW	VSX-D711-K /MYXJIGR	VSX-D711-S /MYXJIEW	
⚠	23	AC Power Code	VDG1076	VDG1077	VDG1077	VDG1077	
	41	Bonnet D510	XZN3112	XZN3112	XZN3112	XZN3122	
	56	Screw (for Bonnet)	FBT40P080FZK	FBT40P080FZK	FBT40P080FZK	FBT40P080FNI	
NSP	60	N Label 711S/MY	Not used	Not used	Not used	XAL3112	

2.3 FRONT PANEL



(1) FRONT PANEL PARTS LIST

Mark	No.	Description	Part No.
	1	FRONT ASSY	XWZ3498
	2	POWER SW ASSY	XWZ3510
	3	H.P. ASSY	XWZ3513
	4	FRONT VIDEO ASSY	XWZ3515
	5	•••••	
	6	R. ENCODER ASSY	XWZ3511
	7	MECHA SW ASSY	XWZ3514
NSP	8	8P Shielded Cable (J29)	XDX3012
	9	•••••	
	10	Damper Assy	AXA7052
	11	Select Knob R5	See Contrast table (2)
	12	Volume Knob R5	See Contrast table (2)
	13	Power Button R5	See Contrast table (2)
	14	Power Button R5M	See Contrast table (2)
	15	Jog Button R5	See Contrast table (2)
	16	Door Button R5	See Contrast table (2)
	17	•••••	
	18	D Panel R5 W/MY	XAK3320
	19	BN Cover 711/MY	See Contrast table (2)
	20	LED Lens 1.6	XAK3308
	21	Pioneer Badge	See Contrast table (2)
	22	Screw DR 3x8W	XBA3010
	23	Cushion R4	See Contrast table (2)
	24	Front Panel 711	See Contrast table (2)
	25	Magnet R5	XMF3002
	26	Holder L R5	XMR3046
	27	Earth Plate R5 HP	XNG3066
	28	Earth Plate R5 D	XNG3067
	29	Magnet Cover R5	XNG3075
	30	Door Assy R5	See Contrast table (2)
NSP	31	Door R5	See Contrast table (2)
NSP	32	Door Cover R5	See Contrast table (2)
NSP	33	Screw 2x35	See Contrast table (2)
	34	Screw	PPZ30P080FMC
	35	Screw	BBZ30P080FMC
NSP	36	C Ring DIM8.1	XBH3016

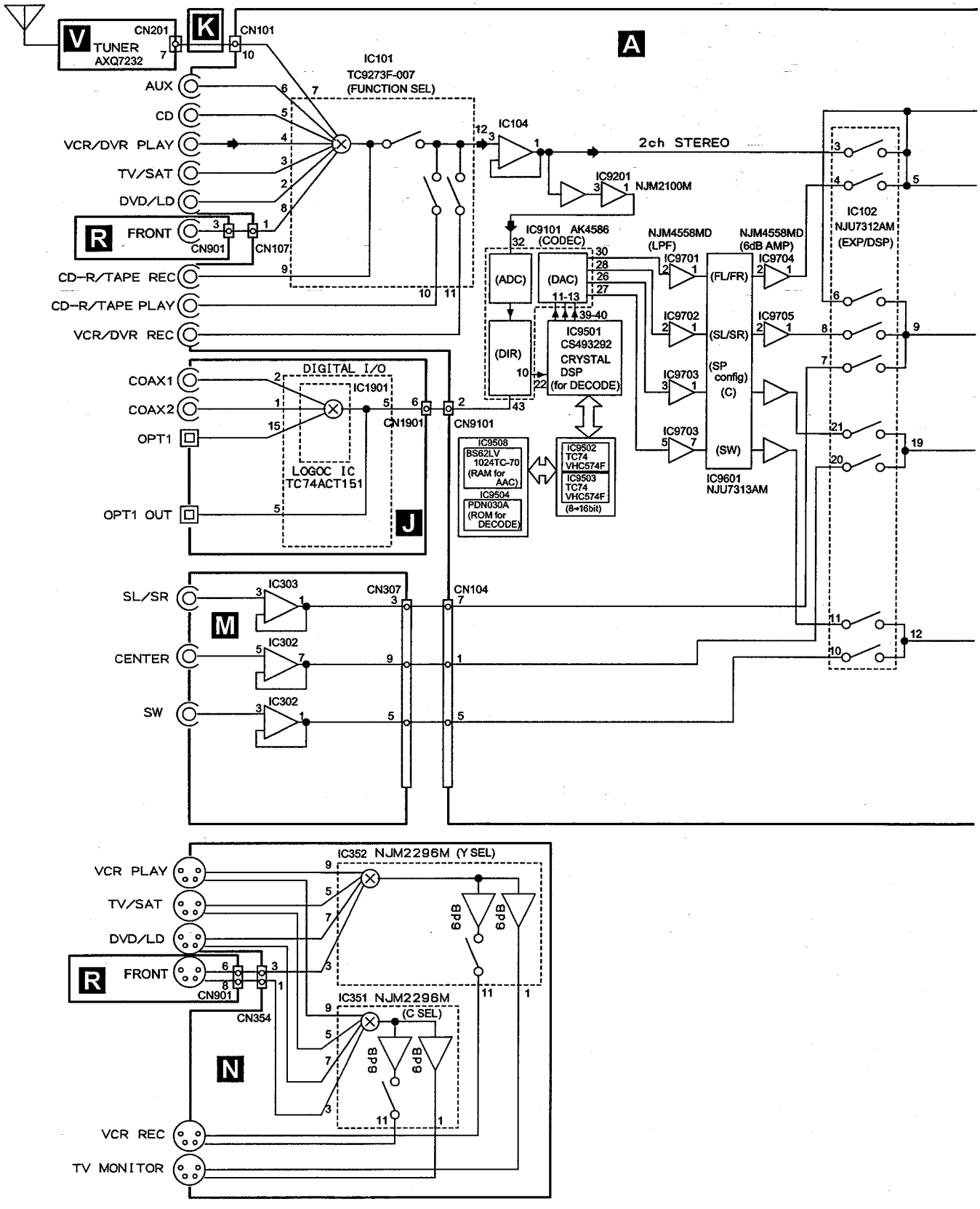
(2) CONTRAST TABLE

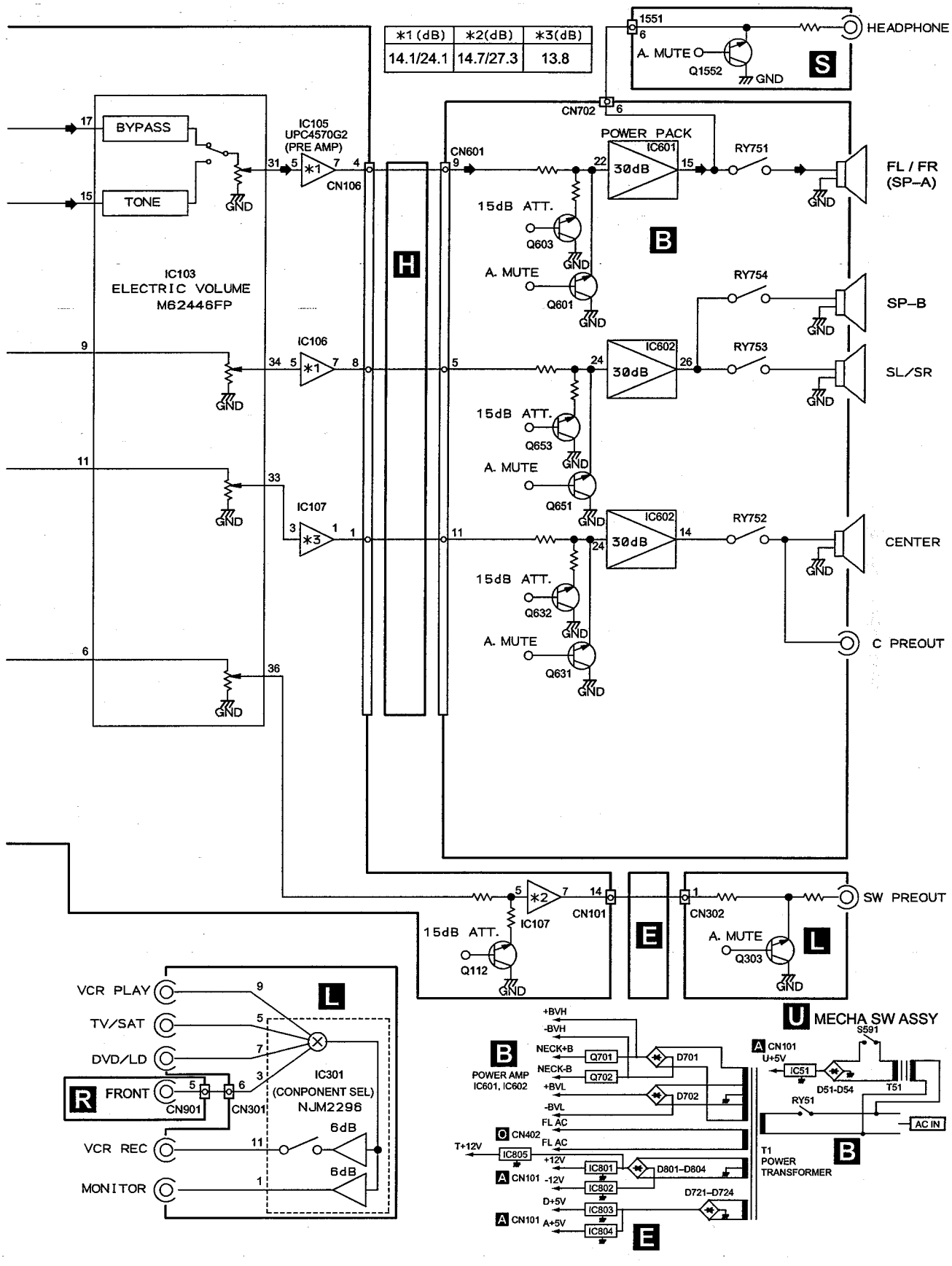
VSX-D711-K/MVXJI, /MYXJIEW, /MYXJIGR and VSX-D711-S/MYXJIEW are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.				Remarks
			VSX-D711-K /MVXJI	VSX-D711-K /MYXJIEW	VSX-D711-K /MYXJIGR	VSX-D711-S /MYXJIEW	
	11	Select Knob R5	XAB3023	XAB3023	XAB3023	XAB3024	
	12	Volume Knob R5	XAB3025	XAB3025	XAB3025	XAB3026	
	13	Power Button R5	XAD3123	XAD3123	XAD3123	XAD3129	
	14	Power Button R5M	XAD3127	XAD3127	XAD3127	XAD3137	
	15	Jog Button R5	XAD3124	XAD3124	XAD3124	XAD3131	
	16	Door Button R5	XAD3126	XAD3126	XAD3126	XAD3135	
	19	BN Cover 711/MY	XAK3291	XAK3291	XAK3291	XAK3284	
	21	Pioneer Badge	XAM3006	XAM3006	XAM3006	VAM1129	
	23	Cushion R4B	XED3001	XED3001	XED3001	Not used	
	23	Cushion R5S	Not used	Not used	Not used	XED3003	
	24	Front Panel 711	XMB3066	XMB3066	XMB3066	XMB3071	
	30	Door Assy R5	XXG3091	XXG3091	XXG3091	XXG3093	
NSP	31	Door R5	XAK3275	XAK3275	XAK3275	XAK3281	
NSP	32	Door Cover R5	XAK3276	XAK3276	XAK3276	XAK3283	
NSP	33	Screw 2x35	XBA3007	XBA3007	XBA3007	XBA3008	

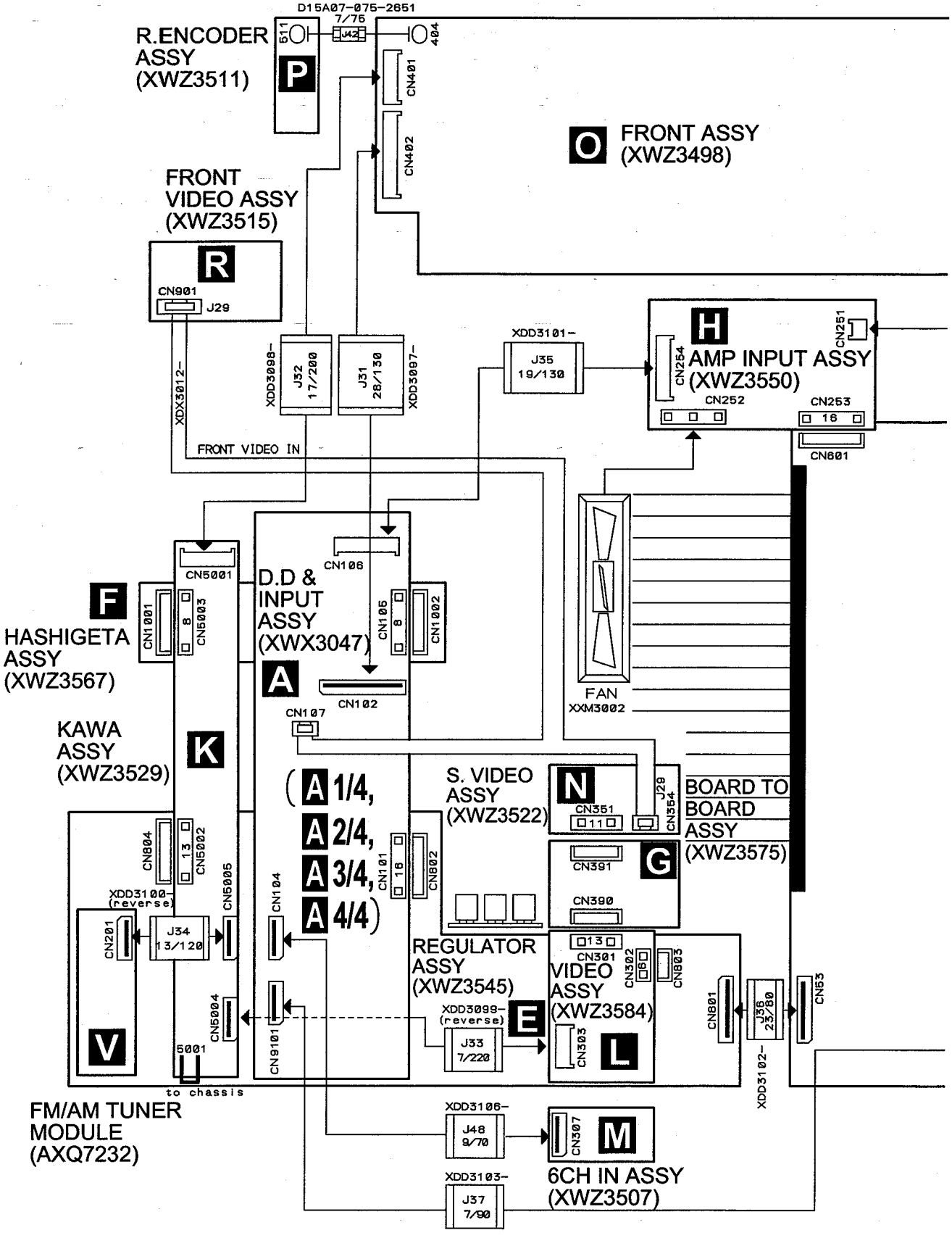
3. BLOCKDIAGRAM AND SPECIFICATIONS

3.1 BLOCKDIAGRAM

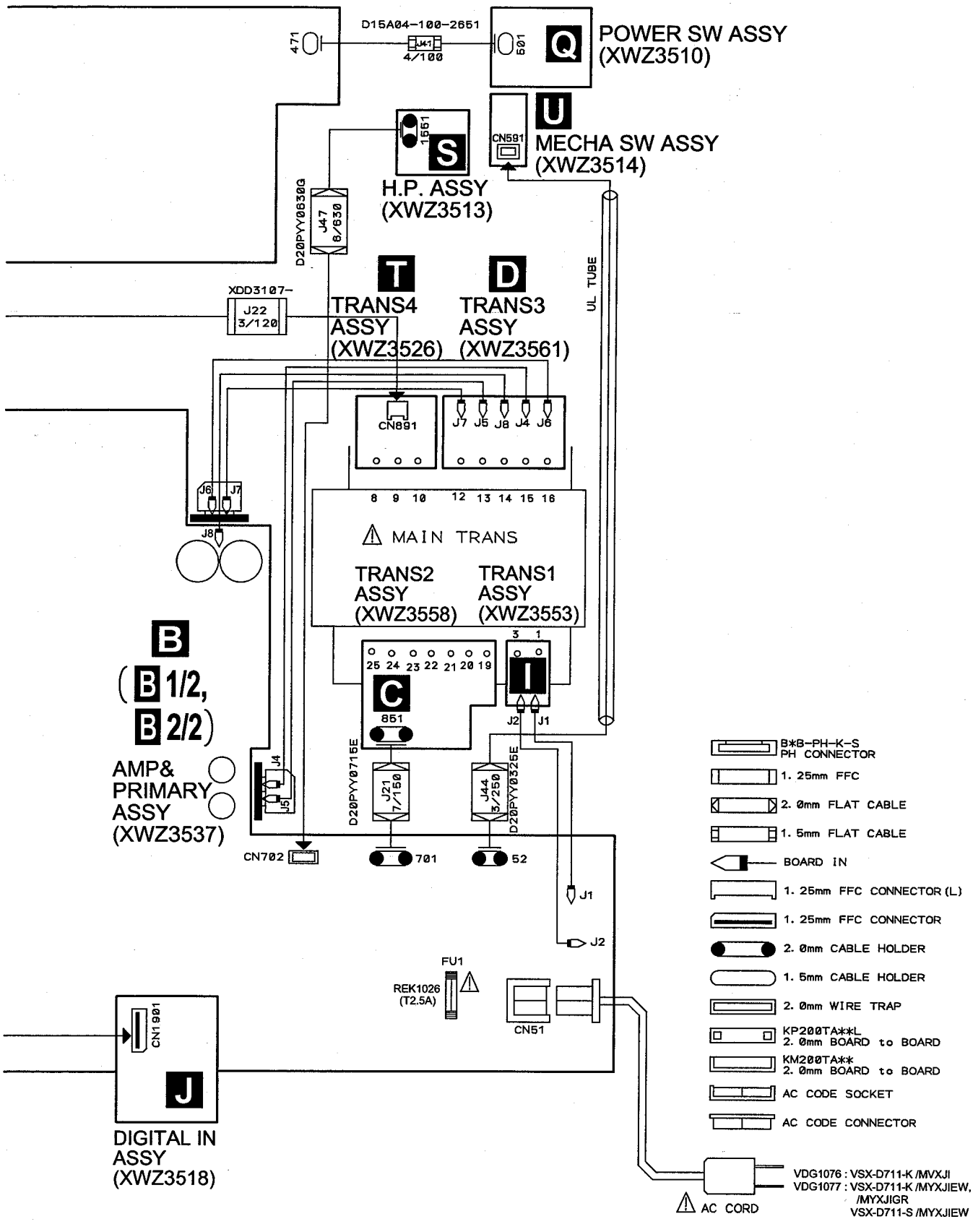



*1 (dB) | *2(dB) | *3(dB)
14.1/24.1 | 14.7/27.3 | 13.8
1551
HEADPHONE
A. MUTE
Q1552
GND
S
CN702
POWER PACK
IC601
RY751
FL / FR
(SP-A)
BYPASS
TONE
IC105
UPC4570G2
(PRE AMP)
CN106
CN601
15dB ATT.
Q603
A. MUTE
Q601
B
H
IC103
ELECTRIC VOLUME
M62446FP
IC106
IC602
RY754
SP-B
RY753
SL/SR
Q653
Q651
IC107
RY752
CENTER
Q632
Q631
C PREOUT
CN101
SW PREOUT
CN302
Q303
L
E
Q112
VCR PLAY
TV/SAT
DVD/LD
FRONT
CN901
CN301
IC301
(CONPONENT SEL)
NJM2296
VCR REC
MONITOR
6dB
R
MECHA SW ASSY
S591
POWER AMP
IC601, IC602
NECK+B
NECK-B
Q701
Q702
D701
D702
+BVH
-BVH
+BVL
-BVL
FL AC
CN402
T+12V
IC805
+12V
-12V
D+5V
A+5V
IC801
IC802
IC803
IC804
D801-D804
D721-D724
CN101
U+5V
IC51
D51-D54
T51
RY51
AC IN
T1
POWER
TRANSFORMER
U

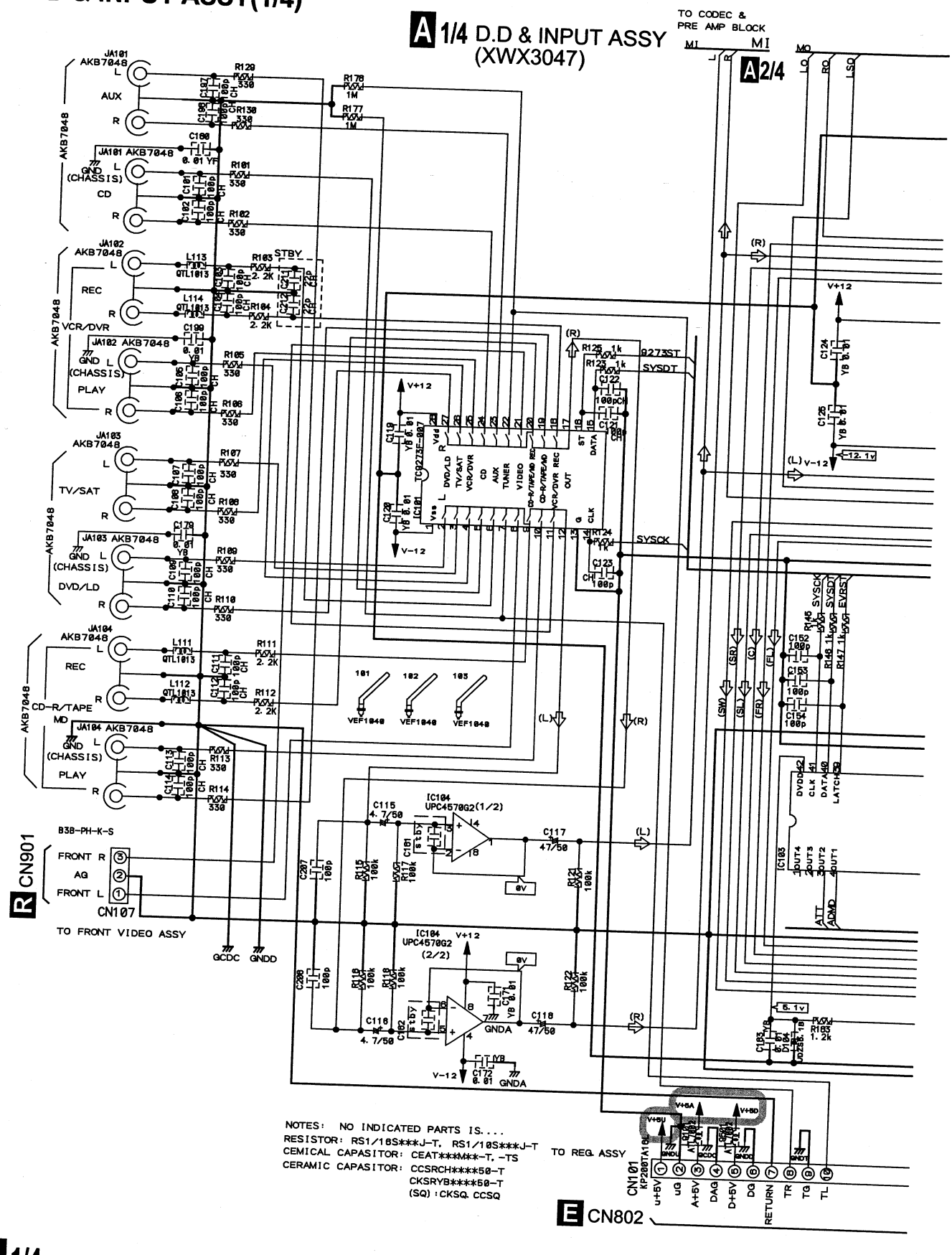
3.2 OVERALL WIRING CONNECTION DIAGRAM

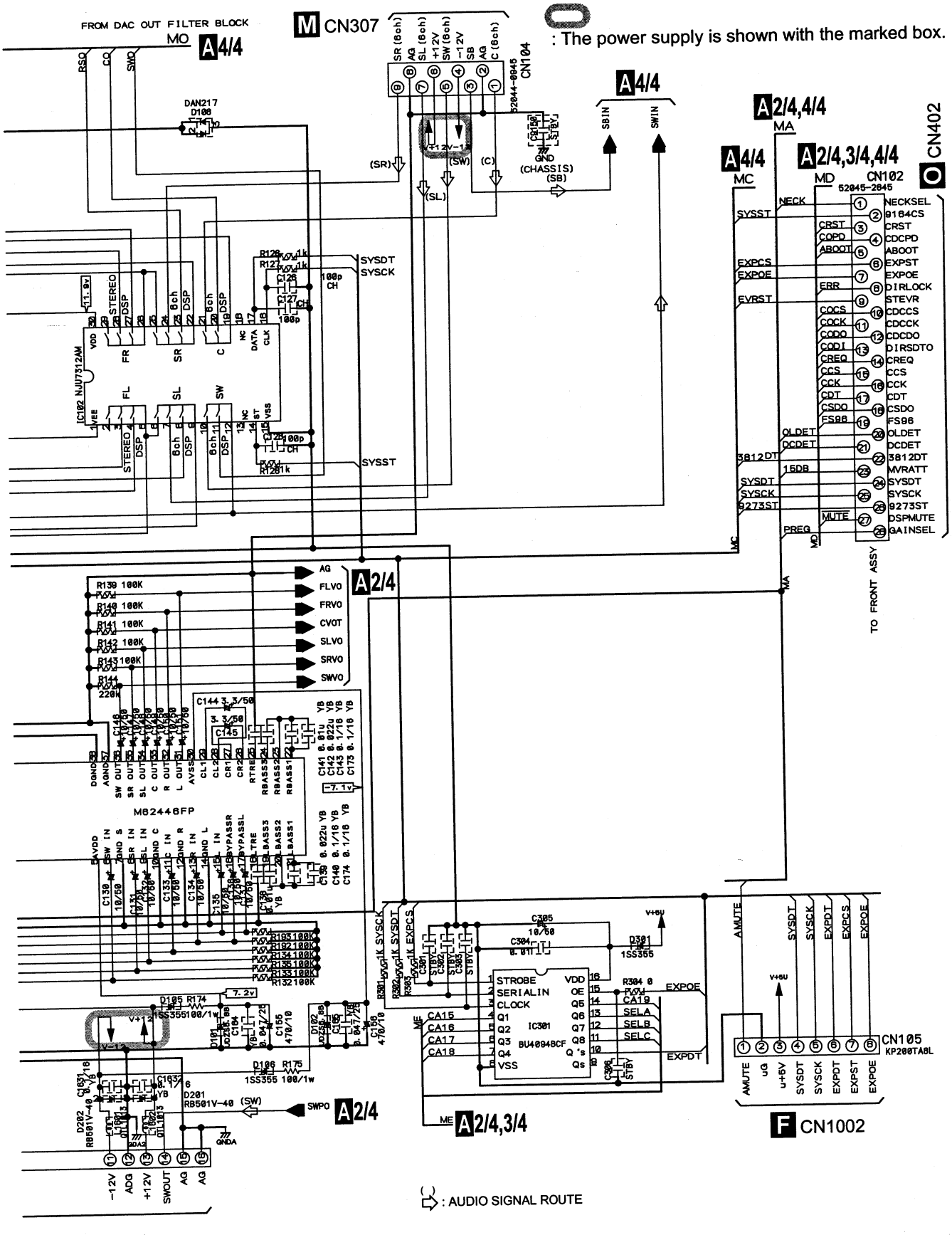


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".

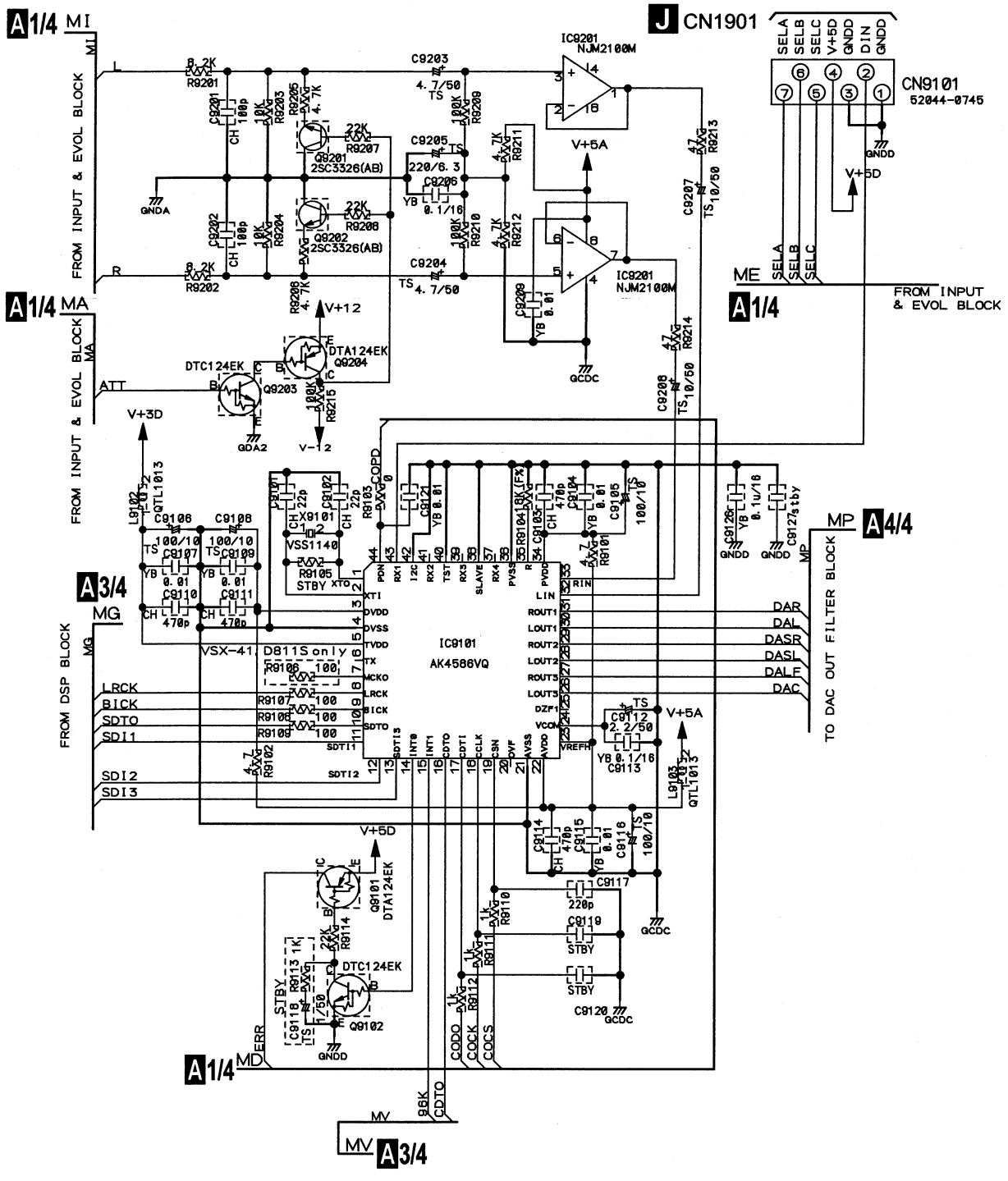


3.3 DD & INPUT ASSY(1/4)

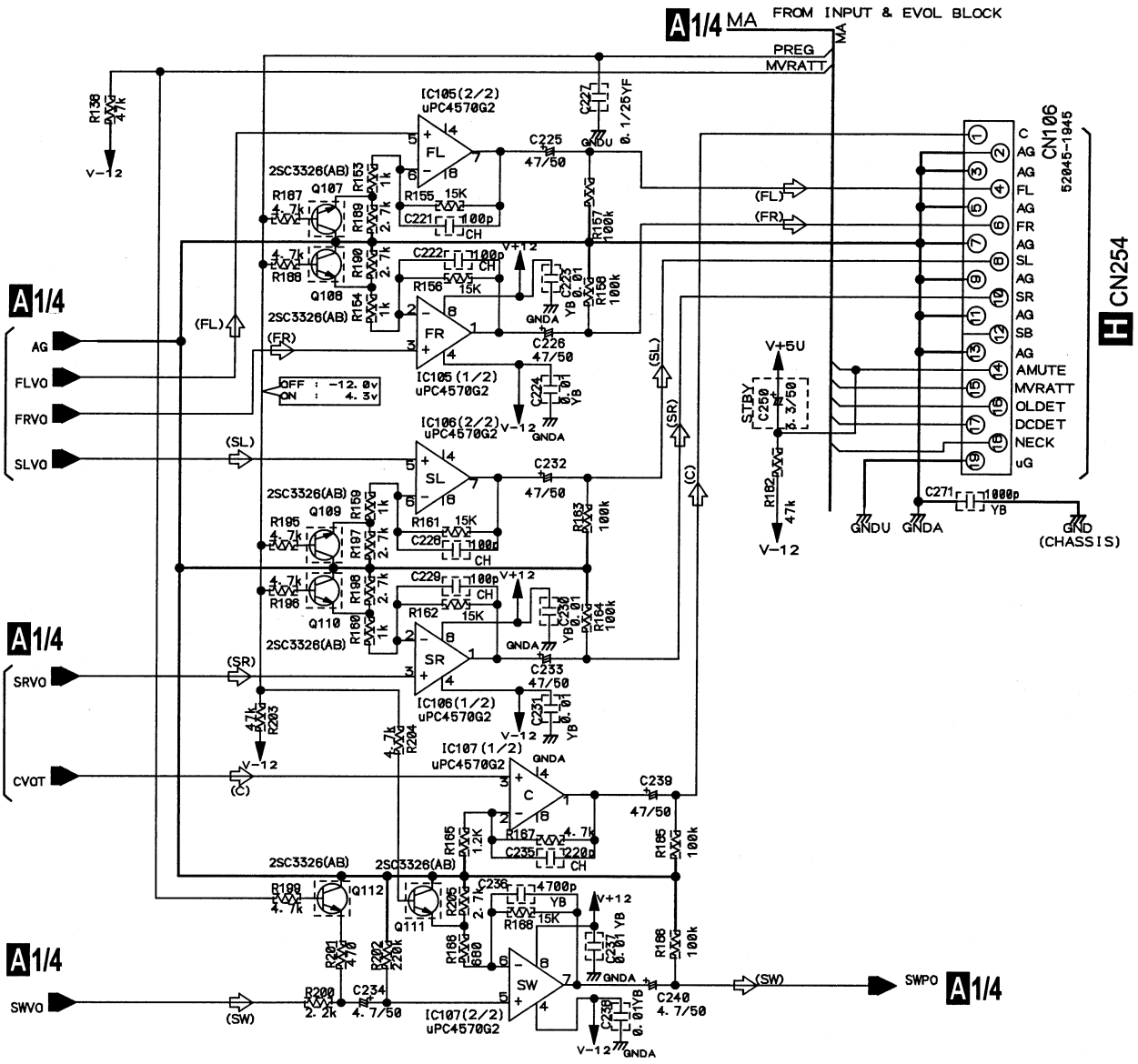



FROM DAC OUT FILTER BLOCK
MO A4/4
M CN307
: The power supply is shown with the marked box.
CN104
A4/4
A2/4,4/4
MA
A4/4
MC
A2/4,3/4,4/4
MD
CN102
CN402
TO FRONT ASSY
A2/4
M62446FP
IC102 NJU7312AM
IC301 BU4094BCF
CN105
KP200TA8L
F CN1002
ME A2/4,3/4
A1/4
: AUDIO SIGNAL ROUTE

3.4 DD & INPUT ASSY(2/4)



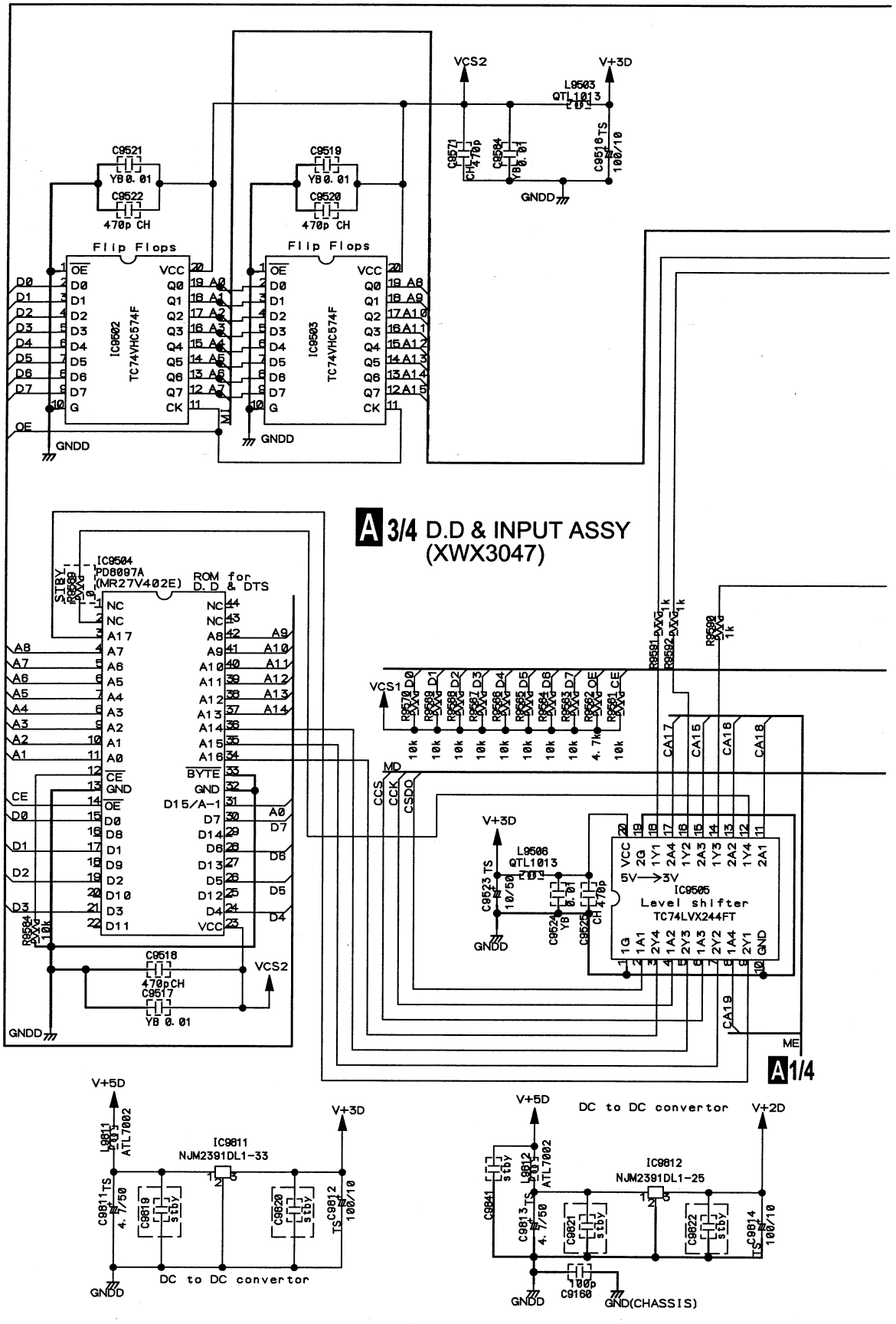
A 2/4 D.D & INPUT ASSY
(XWX3047)

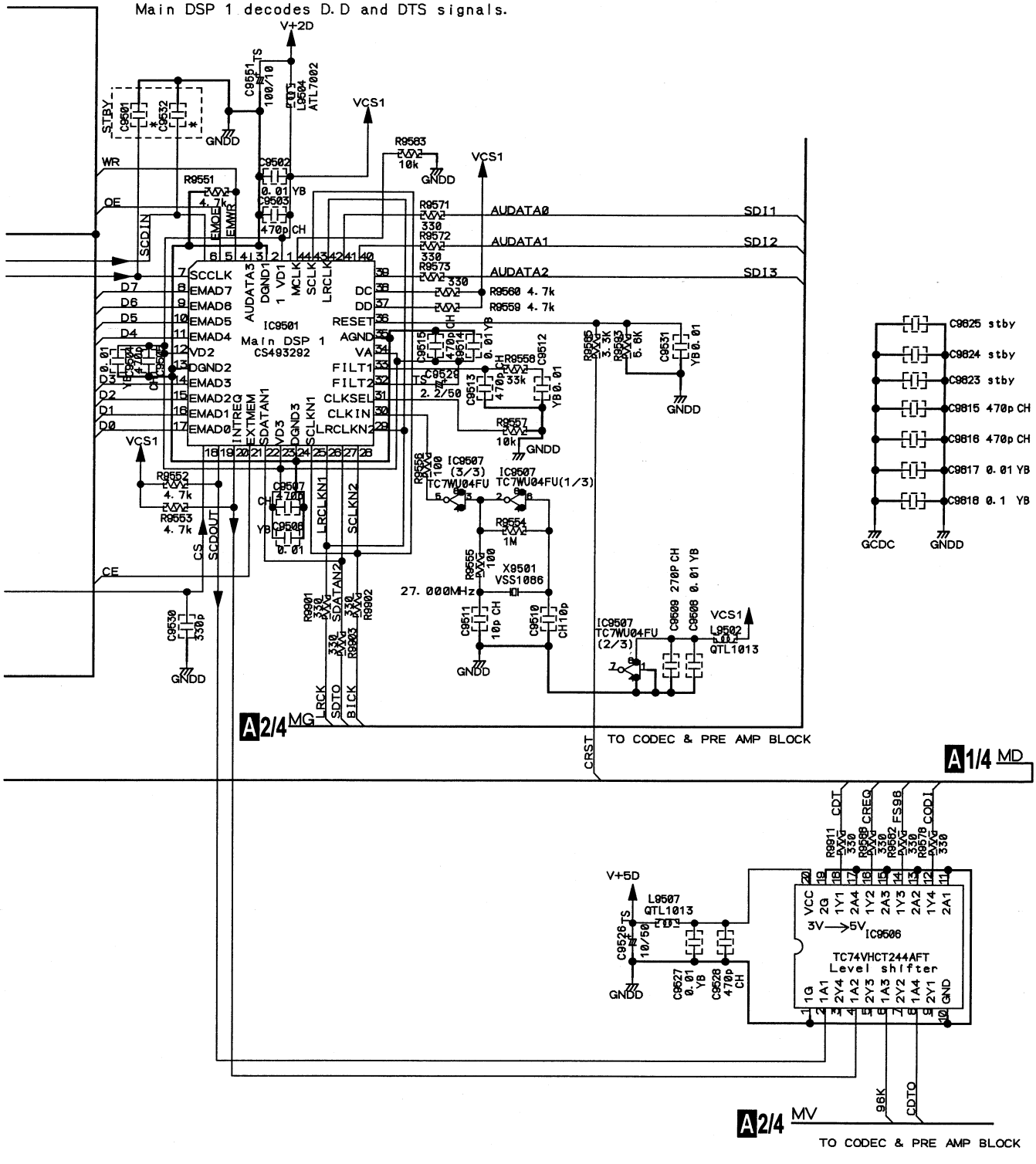


: AUDIO SIGNAL ROUTE

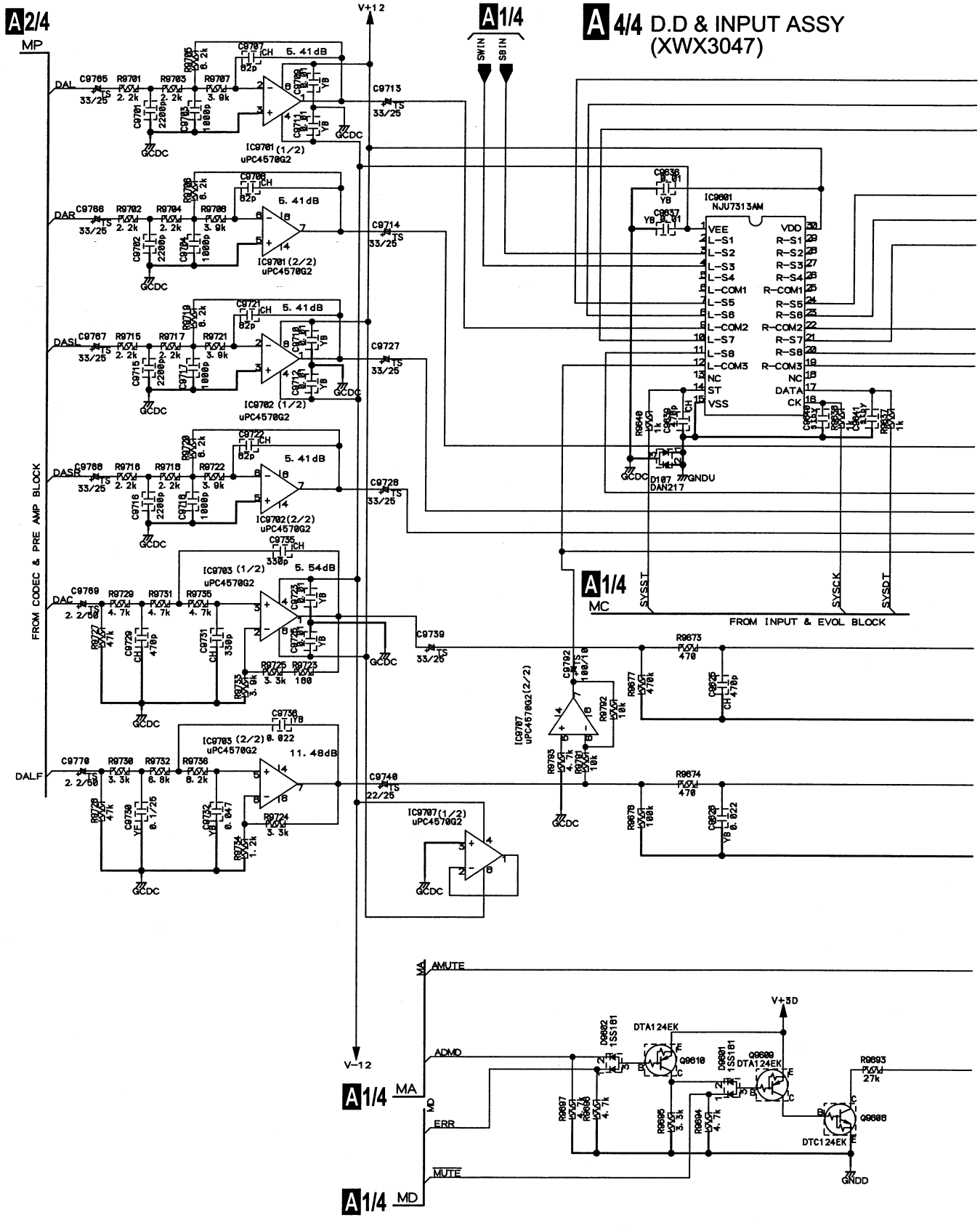
	FRONT SURROUND	SW	CENTER
GAIN (dB)	14.1 / 24.1	14.7 / 27.3	13.8

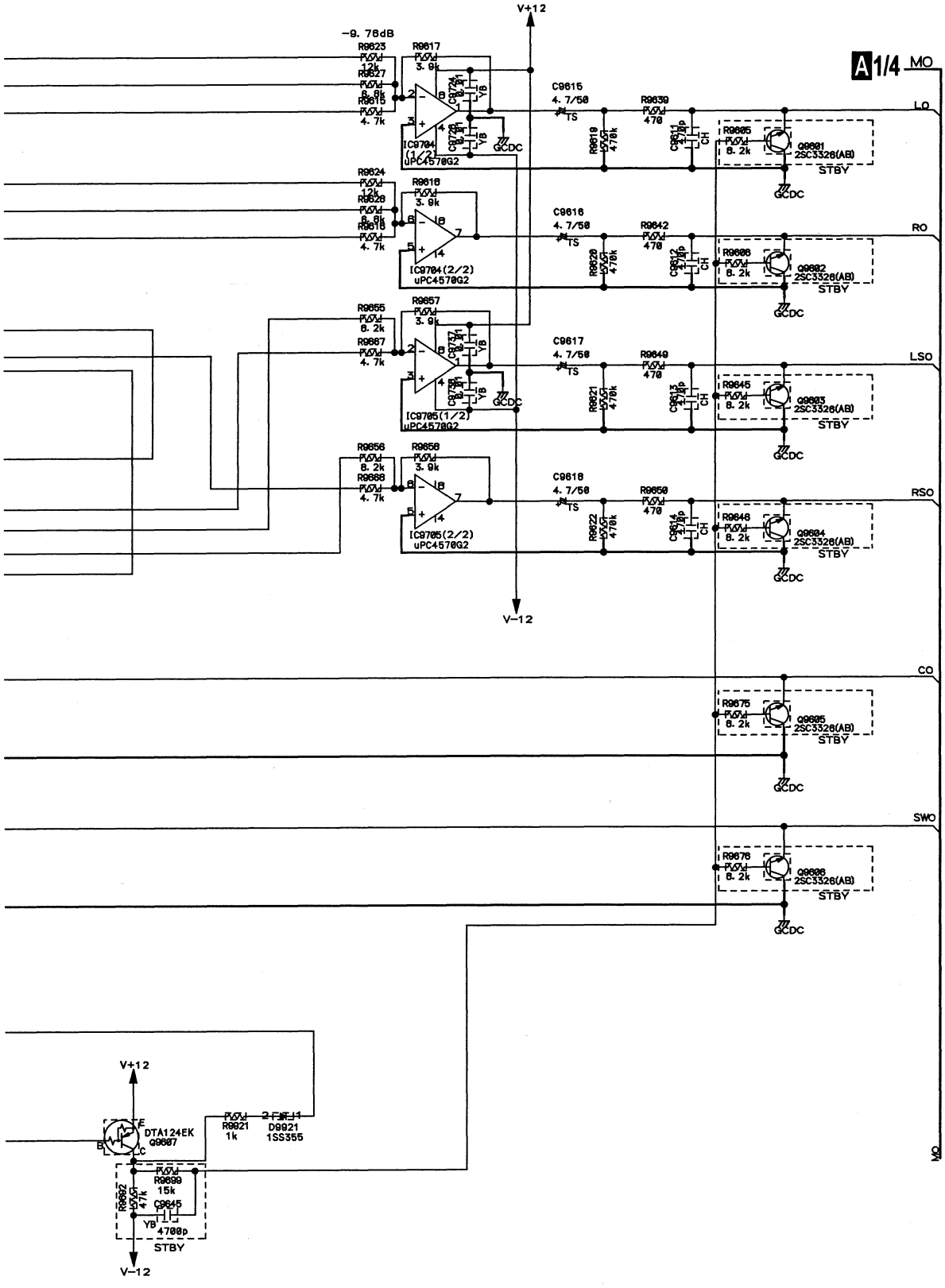
3.5 DD & INPUT ASSY(3/4)



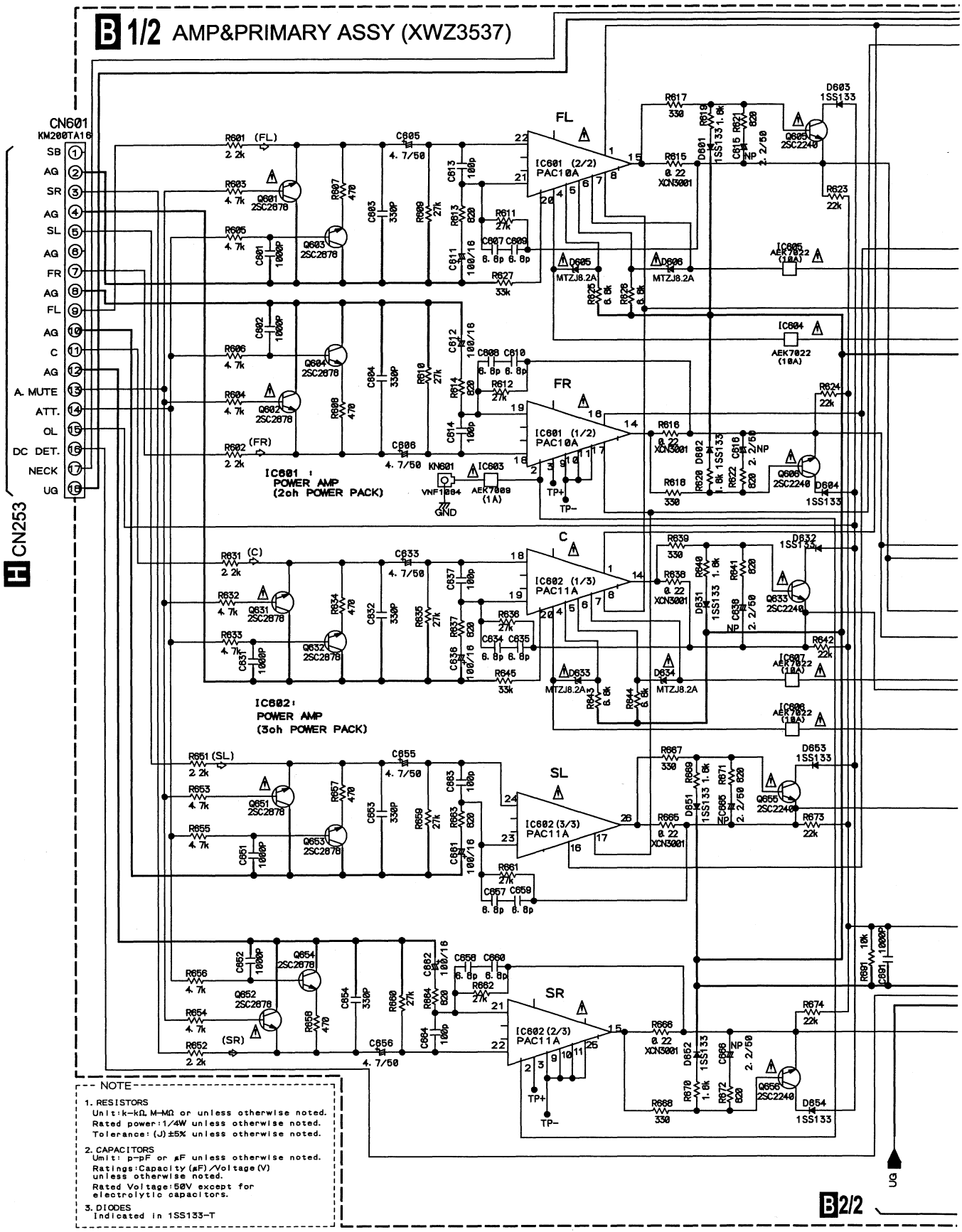

Main DSP 1 decodes D.D and DTS signals.
IC9501
Main DSP 1
CS493292
IC9507
TC7WU04FU
X9501
27.000MHz
VSS1086
L9507
QTL1013
IC9506
TC74VHCT244AFT
Level shifter
3V→5V
C9825 stby
C9824 stby
C9823 stby
C9815 470p CH
C9816 470p CH
C9817 0.01 YB
C9818 0.1 YB
GCDC
GNDD
AUDATA0
AUDATA1
AUDATA2
SDI1
SDI2
SDI3
A2/4 MG
A1/4 MD
A2/4 MV
TO CODEC & PRE AMP BLOCK
CRST

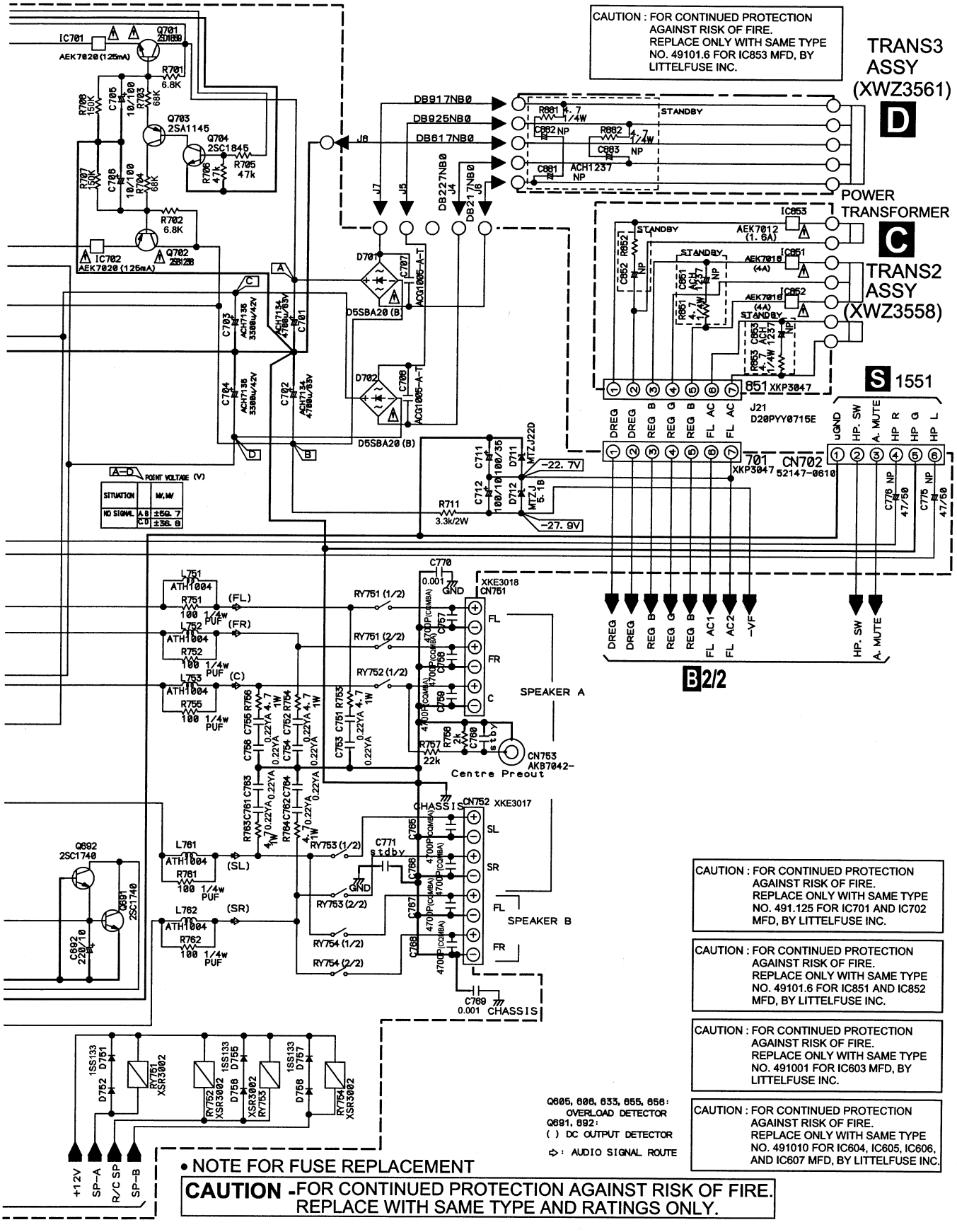
3.6 DD & INPUT ASSY(4/4)




V+12
-9. 78dB
R9623
12k
R9627
8. 2k
R9615
4. 7k
R9617
3. 9k
IC9704 (1/2) uPC4570G2
C9724
C9725
C9615
4. 7/50
TS
R9639
470
R9619
470k
C9611
470p
CH
R9665
8. 2k
Q9601
2SC3326(AB)
STBY
GCDC
LO
R9624
12k
R9628
8. 2k
R9616
4. 7k
R9618
3. 9k
IC9704(2/2) uPC4570G2
C9616
4. 7/50
R9642
470
R9620
470k
C9612
470p
R9666
8. 2k
Q9602
2SC3326(AB)
RO
R9655
8. 2k
R9667
4. 7k
R9657
3. 9k
IC9705(1/2) uPC4570G2
C9737
C9738
C9617
4. 7/50
R9649
470
R9621
470k
C9613
470p
R9645
8. 2k
Q9603
2SC3326(AB)
LSO
R9656
8. 2k
R9668
4. 7k
R9658
3. 9k
IC9705(2/2) uPC4570G2
C9618
4. 7/50
R9650
470
R9622
470k
C9614
470p
R9646
8. 2k
Q9604
2SC3326(AB)
RSO
V-12
TO INPUT & EVOL BLOCK
CO
R9675
8. 2k
Q9605
2SC3326(AB)
SWO
R9676
8. 2k
Q9606
2SC3326(AB)
MO
V+12
DTA124EK
Q9607
R9921
1k
D9921
1SS355
R9699
15k
R9662
47k
C9645
YB
4700p
STBY
V-12

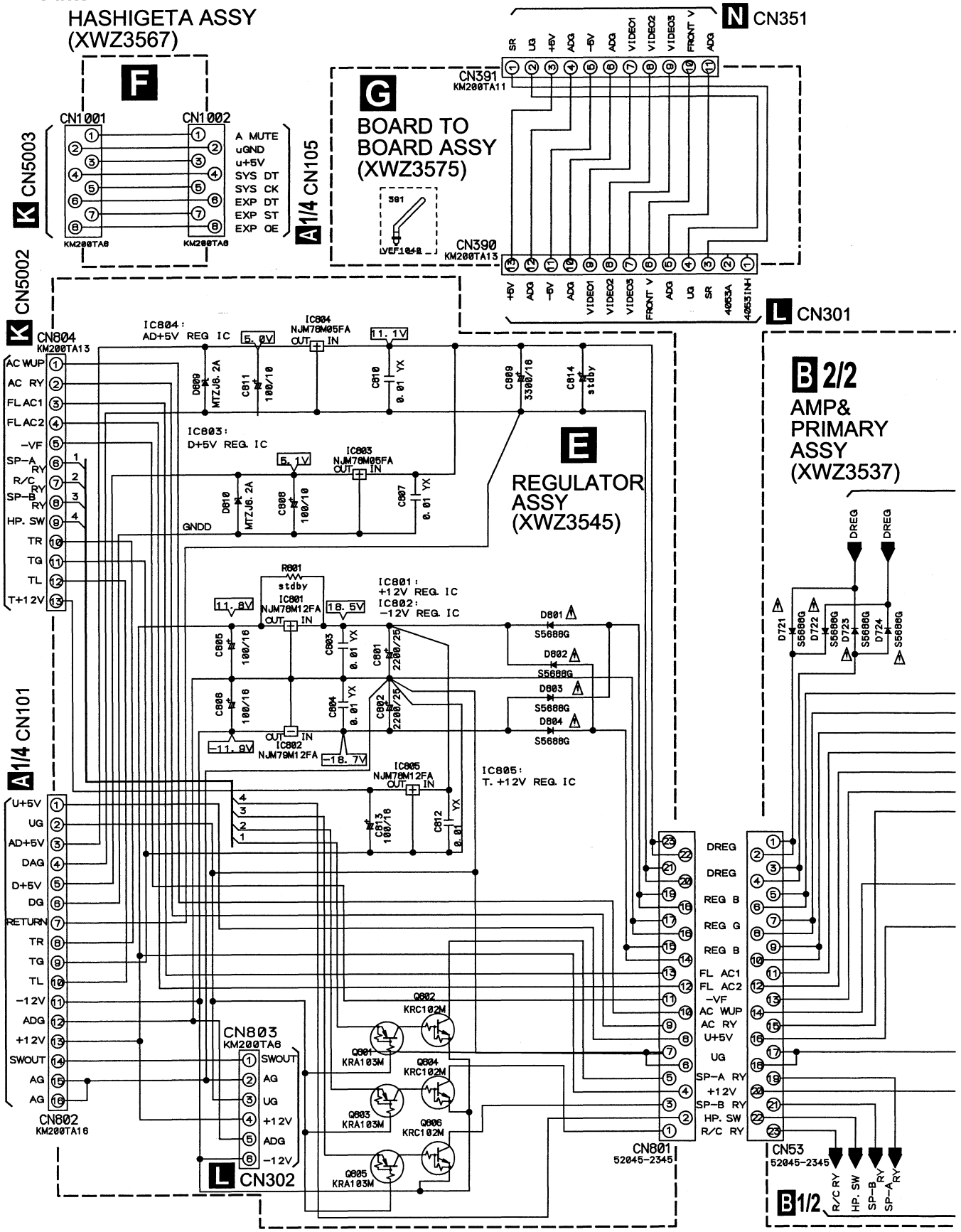
3.7 AMP & PRIMARY(1/2), TRANS2 and TRANS3 ASSYS

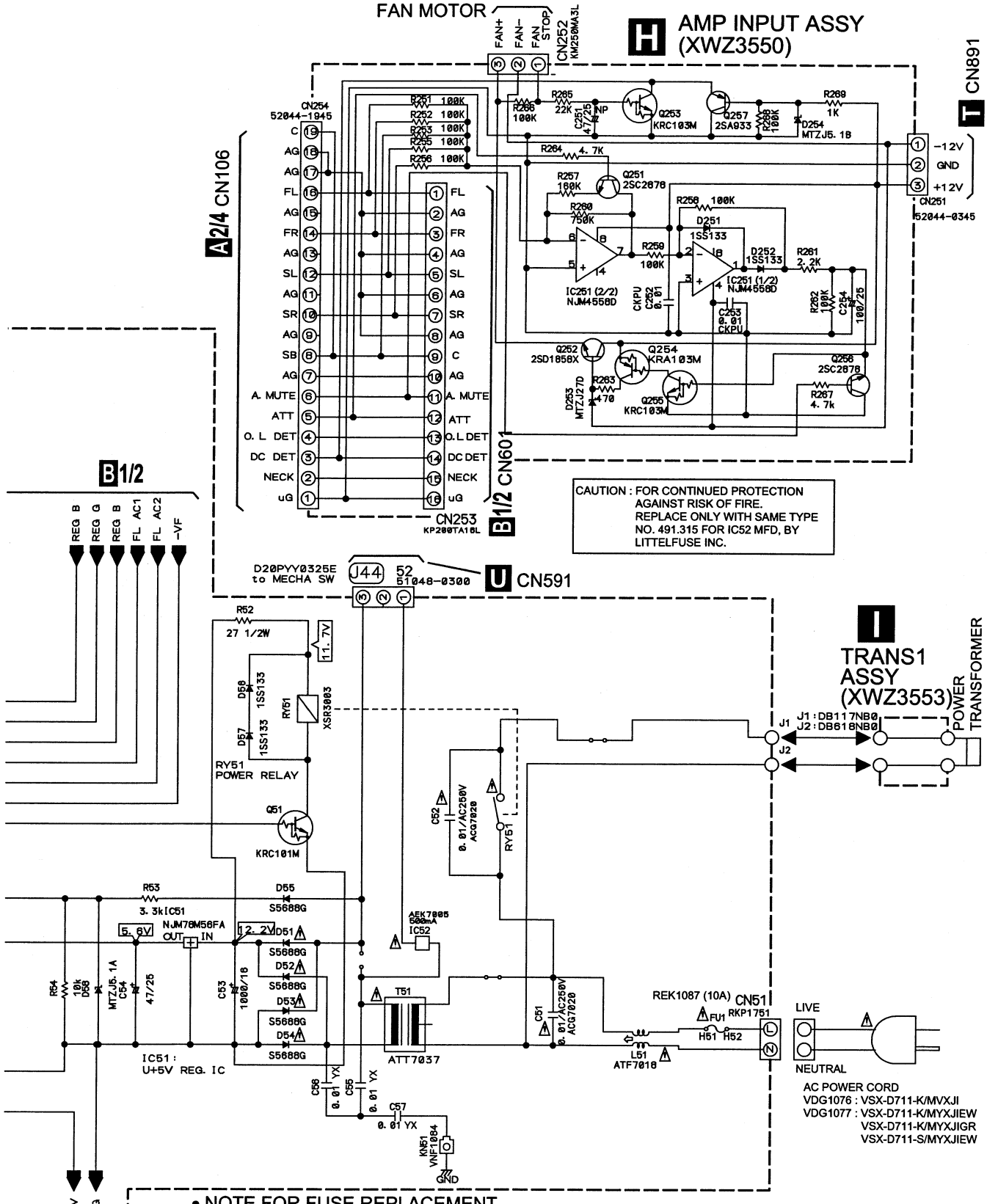



CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 FOR IC853 MFD, BY LITTELFUSE INC.
TRANS3 ASSY (XWZ3561)
D
POWER TRANSFORMER
C
TRANS2 ASSY (XWZ3558)
S 1551
B2/2
B1/2 C D
IC701
AEK7020(125mA)
IC702
AEK7020(125mA)
IC853
AEK7012 (1.6A)
IC851
AEK7010 (4A)
IC852
AEK7010 (4A)
D5SBA20 (B)
D5SBA20 (B)
CN702 52147-0610
CN753 AKB7042- Centre Preout
CN752 XKE3017
CN751 XKE3018
SPEAKER A
SPEAKER B
CHASSIS
STANDBY
DREG
REG B
REG G
FL AC1
FL AC2
-VF
HP. SW
A. MUTE
HP R
HP G
HP L
uGND
FL
FR
C
SL
SR
(FL)
(FR)
(C)
(SL)
(SR)
RY751 (1/2)
RY751 (2/2)
RY752 (1/2)
RY753 (1/2)
RY753 (2/2)
RY754 (1/2)
RY754 (2/2)
+12V
SP-A
R/C SP
SP-B
Q605, 606, 633, 655, 656: OVERLOAD DETECTOR
Q691, 692: ( ) DC OUTPUT DETECTOR
⇨: AUDIO SIGNAL ROUTE
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.125 FOR IC701 AND IC702 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 FOR IC851 AND IC852 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491001 FOR IC603 MFD, BY LITTELFUSE INC.
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491010 FOR IC604, IC605, IC606, AND IC607 MFD, BY LITTELFUSE INC.
• NOTE FOR FUSE REPLACEMENT
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

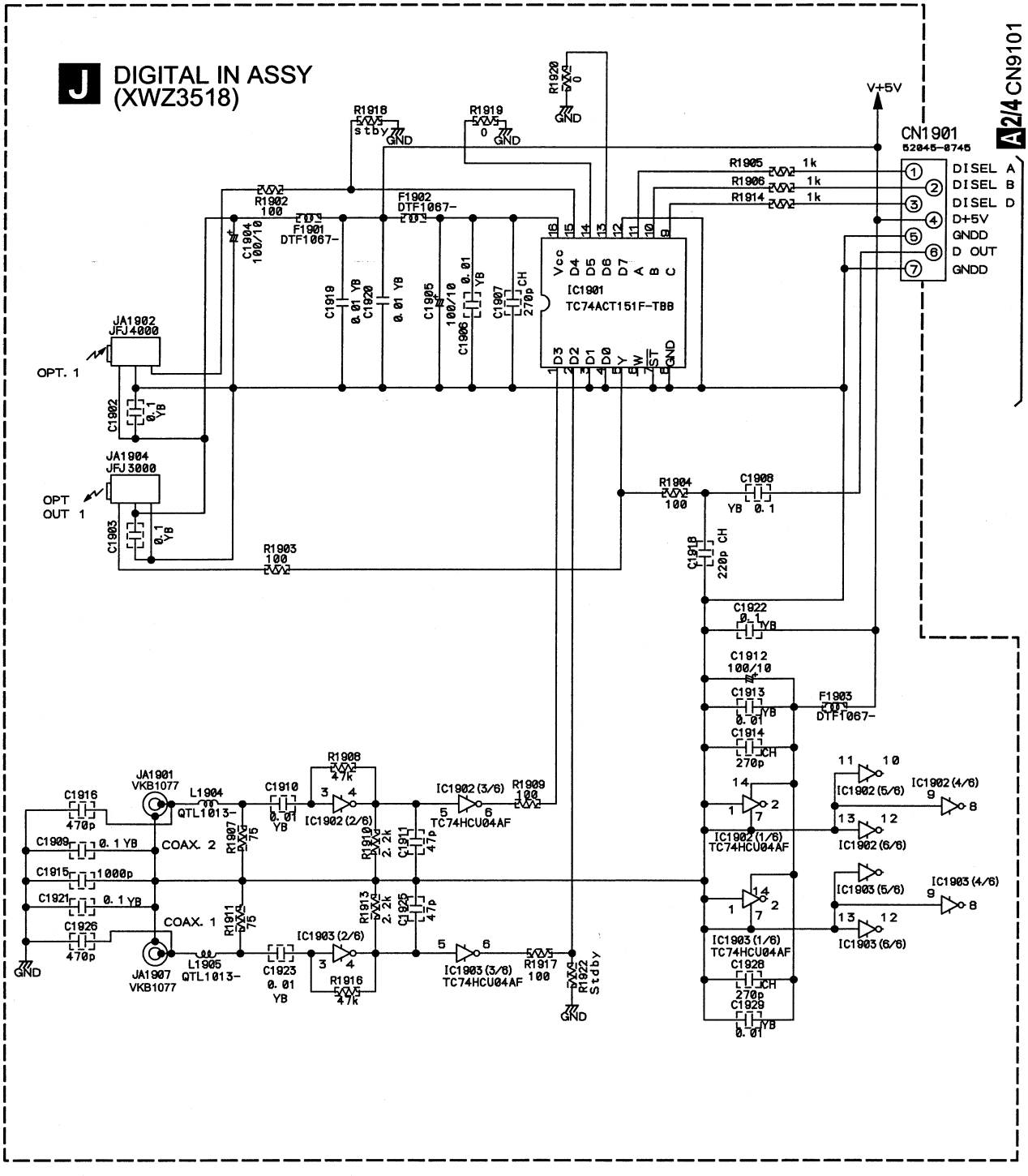
VSX-D711-K, VSX-D711-S

3.8 AMP & PRIMARY(2/2), REGULATOR, HASHIGETA, BOARD TO BOARD, AMP INPUT and TRANS1 ASSYS

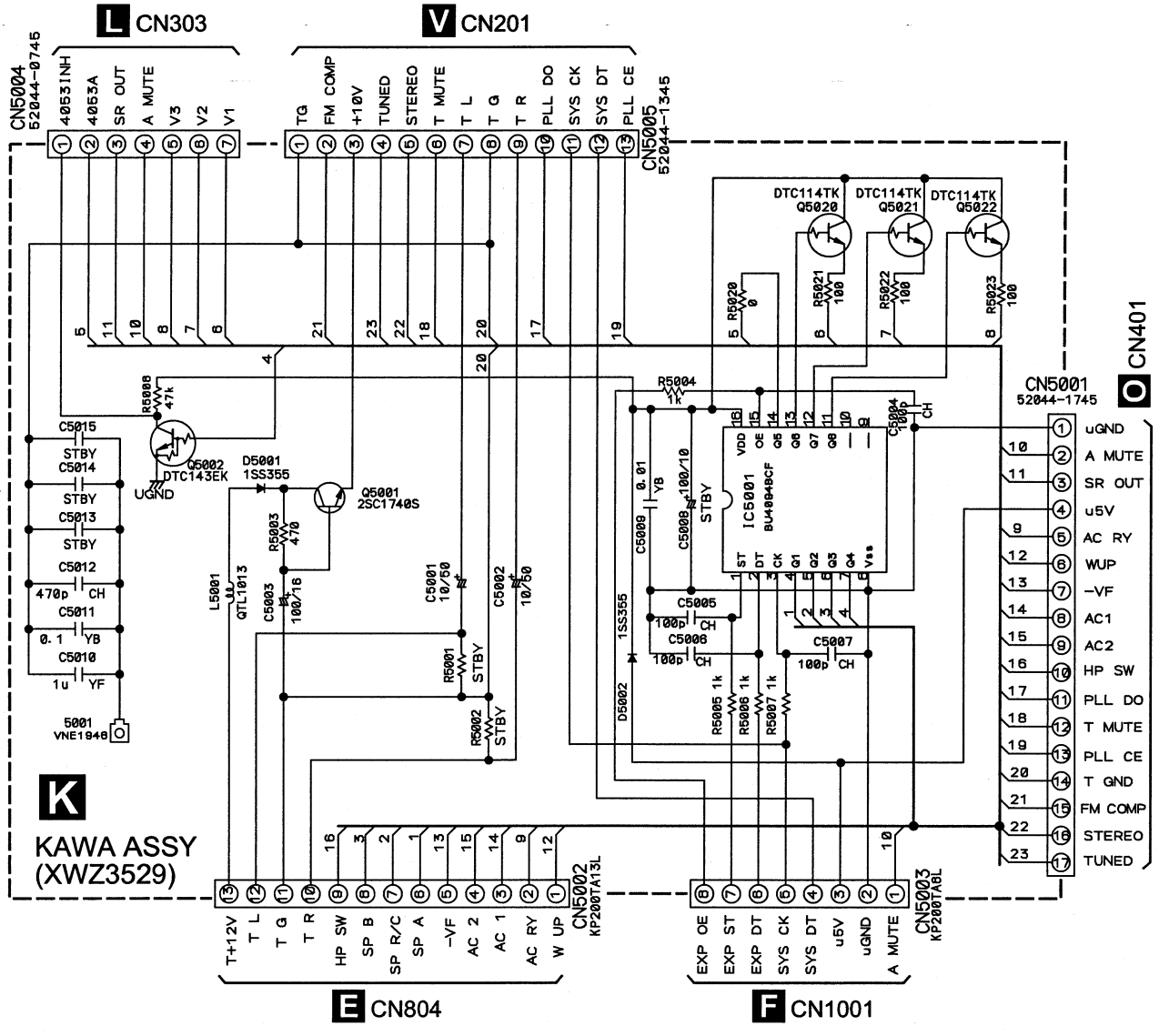



FAN MOTOR
FAN+
FAN-
FAN STOP
CN252
KM250MA3L
H AMP INPUT ASSY
(XWZ3550)
T CN891
-12V
GND
+12V
CN251
52044-0345
A2/4 CN106
CN254
52044-1945
B1/2 CN601
CN253
KP200TA16L
IC251 (2/2)
NJM4558D
IC251 (1/2)
NJM4558D
Q251
2SC2878
Q252
2SD1858X
Q253
KRC103M
Q254
KRA103M
Q255
KRC103M
Q256
2SC2878
Q257
2SA933
D254
MTZJ5.1B
D251
1SS133
D252
1SS133
D253
MTZJ27D
CAUTION : FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE.
REPLACE ONLY WITH SAME TYPE
NO. 491.315 FOR IC52 MFD, BY
LITTELFUSE INC.
B1/2
REG B
REG G
REG B
FL AC1
FL AC2
-VF
D20PYY0325E
to MECHA SW
J44
52
51048-0300
U CN591
I TRANS1 ASSY (XWZ3553)
POWER TRANSFORMER
J1 : DB117NB0
J2 : DB618NB0
RY51
POWER RELAY
XSR3003
Q51
KRC101M
IC51 :
U+5V REG. IC
NJM78M58FA
AEK7805
500mA
IC52
T51
ATT7037
L51
ATF7018
REK1087 (10A)
CN51
RKP1751
LIVE
NEUTRAL
AC POWER CORD
VDG1076 : VSX-D711-K/MVXJI
VDG1077 : VSX-D711-K/MYXJIEW
VSX-D711-K/MYXJIGR
VSX-D711-S/MYXJIEW
+12V
UG
GND
• NOTE FOR FUSE REPLACEMENT
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATINGS ONLY.

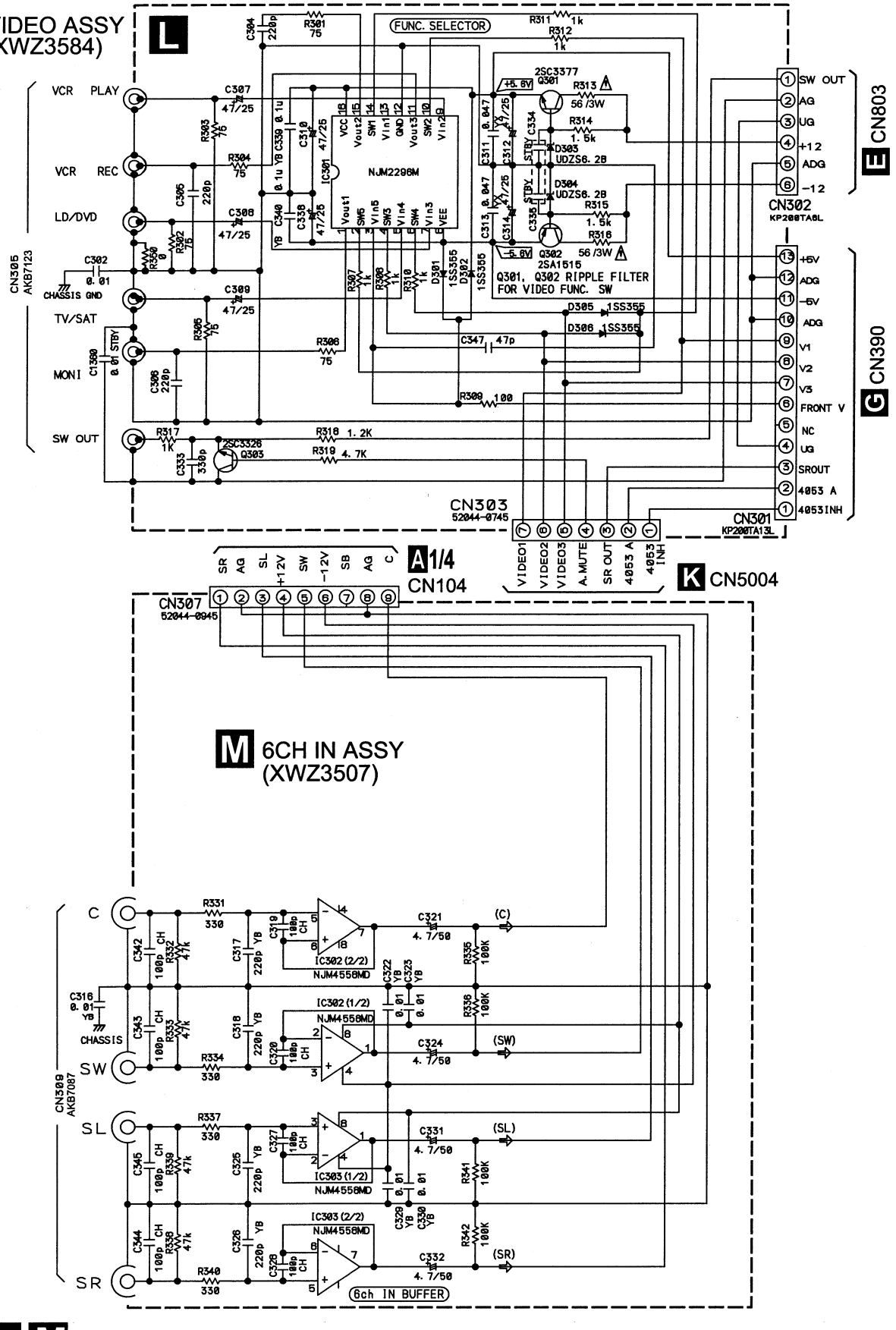
3.9 DIGITAL IN ASSY



3.10 KAWA ASSY



3.11 VIDEO and 6CH IN ASSYS



3.11 S. VIDEO ASSY

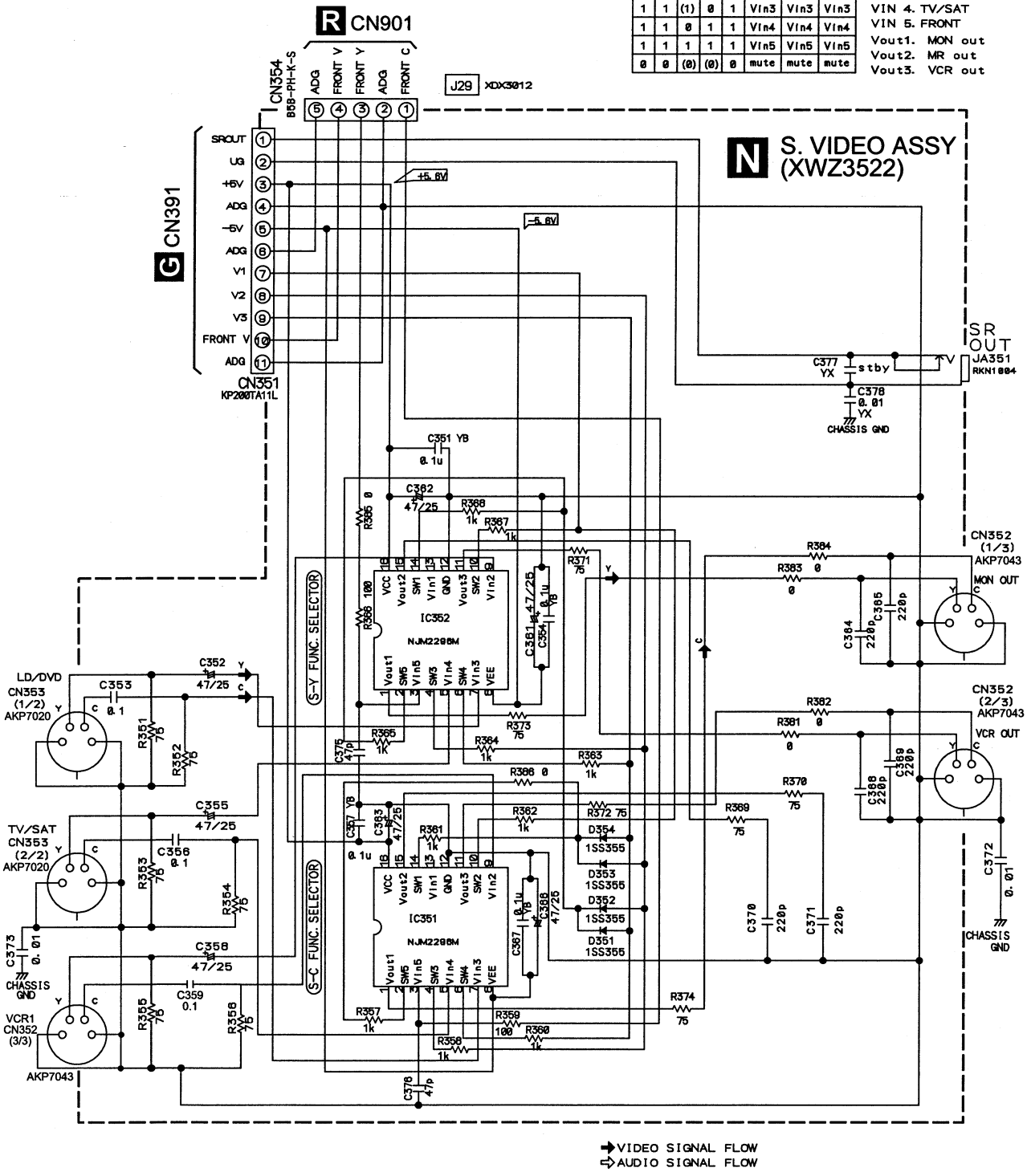
NOTE

1. RESISTORS
   Unit: k=kΩ, M=MΩ or Ω unless otherwise noted.
   Rated power: 1/10W unless otherwise noted.
   Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
   Unit: p=pF or μF unless otherwise noted.
   Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
   Rated Voltage: 50V expect for electrolytic capacitors.
3. DIODES
   Indicated in 1SS355-TRB

NJM2296D control port status

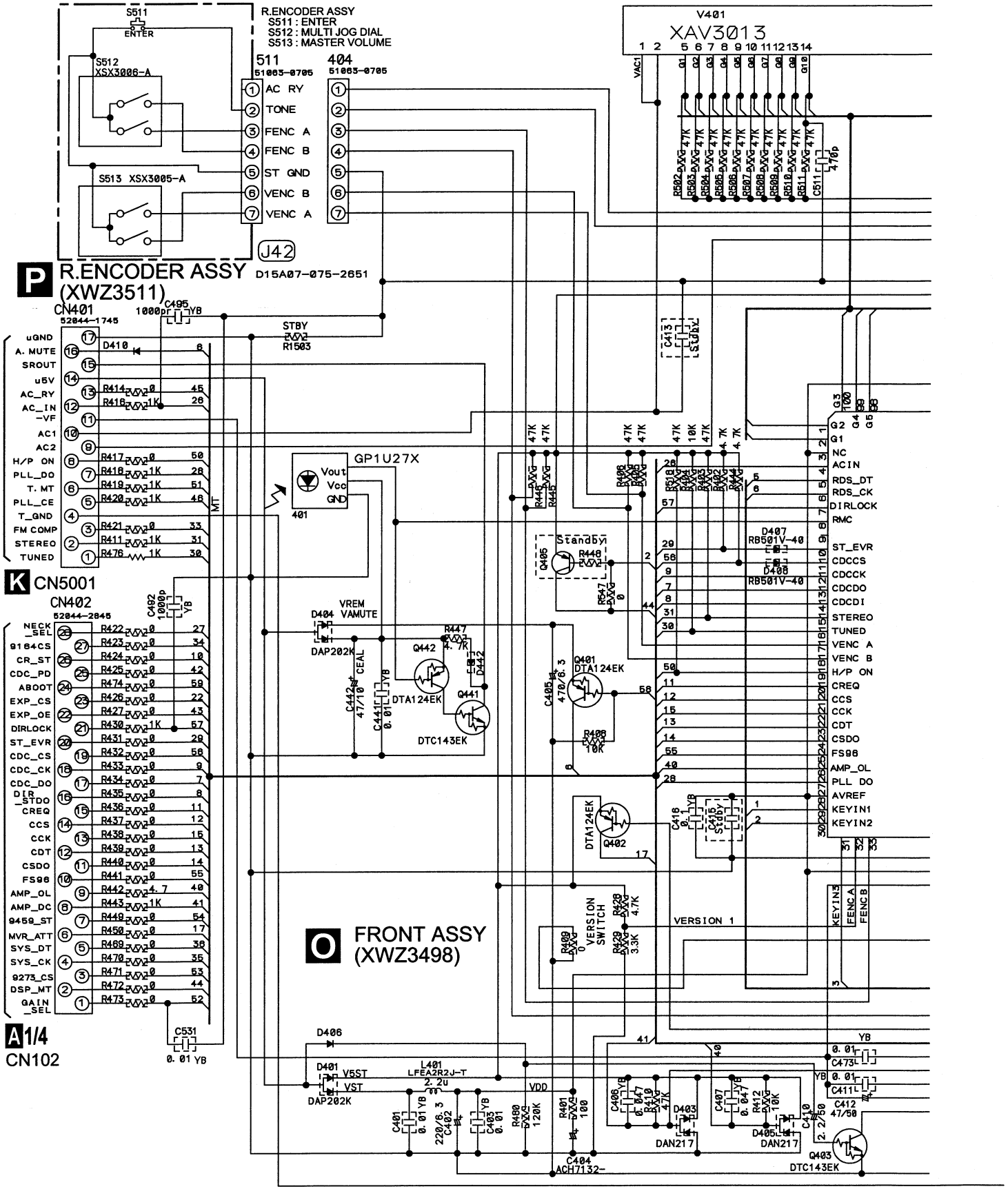
SW1	SW2	SW3	SW4	SW5	Vout1	Vout2	Vout3
1	0	(1)	0	1	Vin2	Vin2	mute
1	1	(1)	0	1	Vin3	Vin3	Vin3
1	1	0	1	1	Vin4	Vin4	Vin4
1	1	1	1	1	Vin5	Vin5	Vin5
0	0	(0)	(0)	0	mute	mute	mute

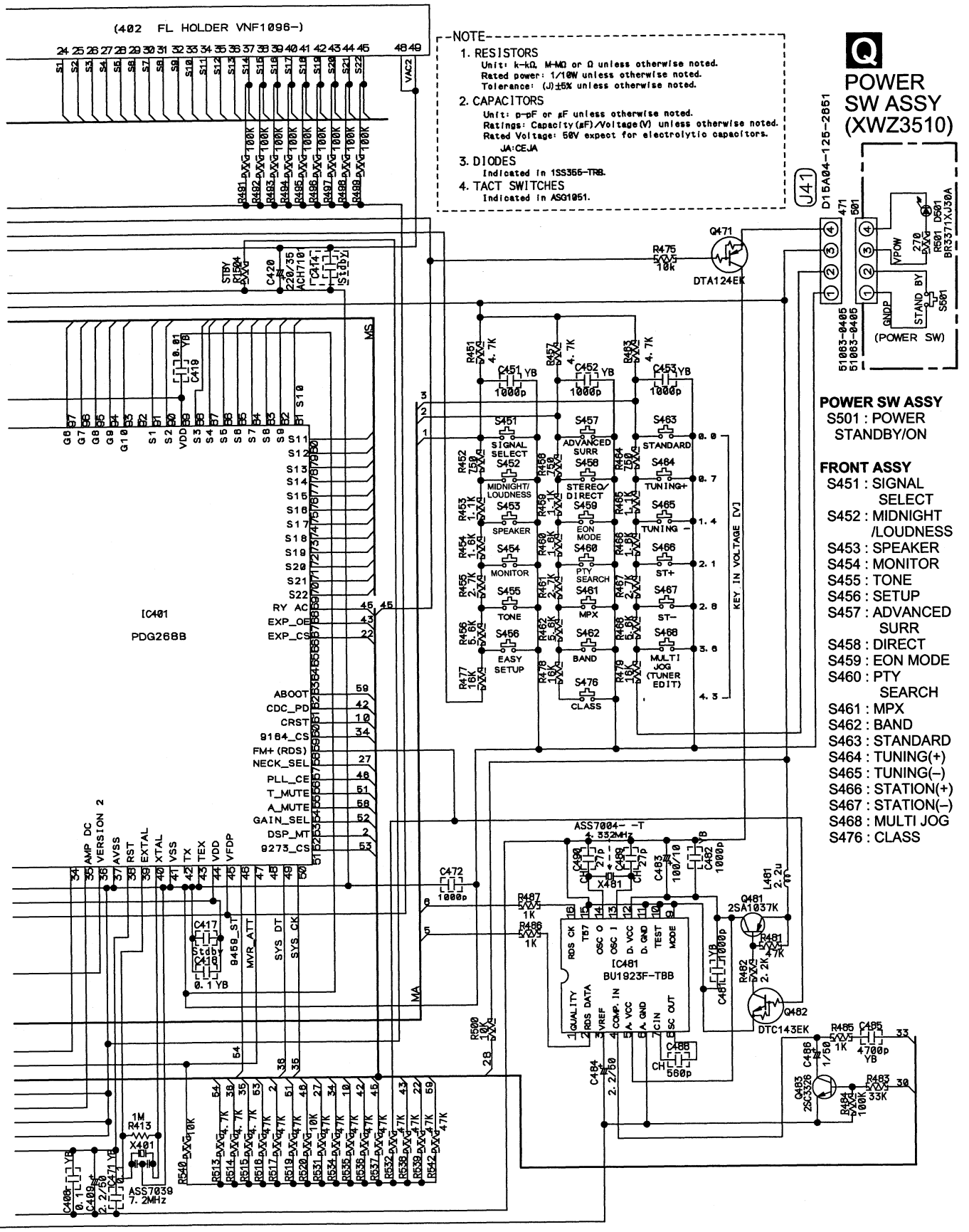
VIN 2. VCR
VIN 3. DVD/LD
VIN 4. TV/SAT
VIN 5. FRONT
Vout1. MON out
Vout2. MR out
Vout3. VCR out



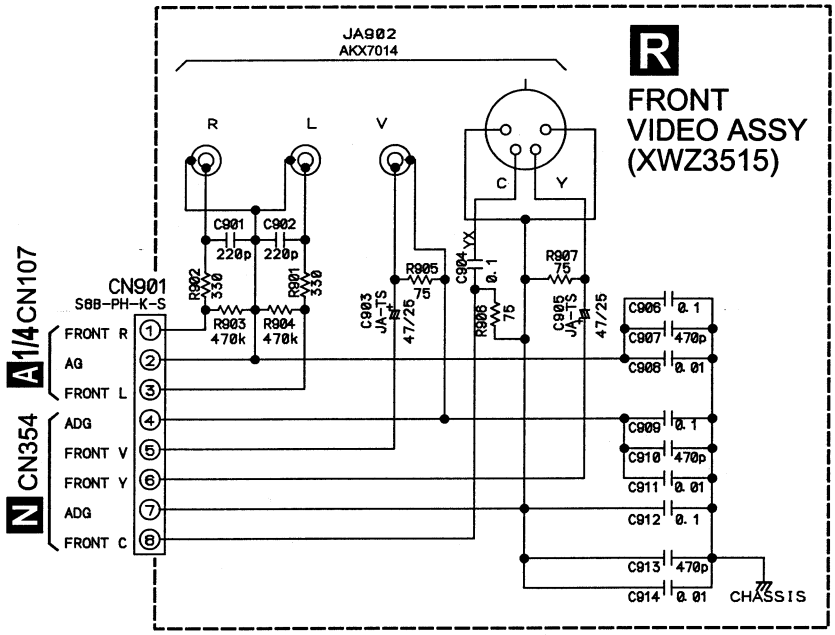
→VIDEO SIGNAL FLOW
⇨AUDIO SIGNAL FLOW

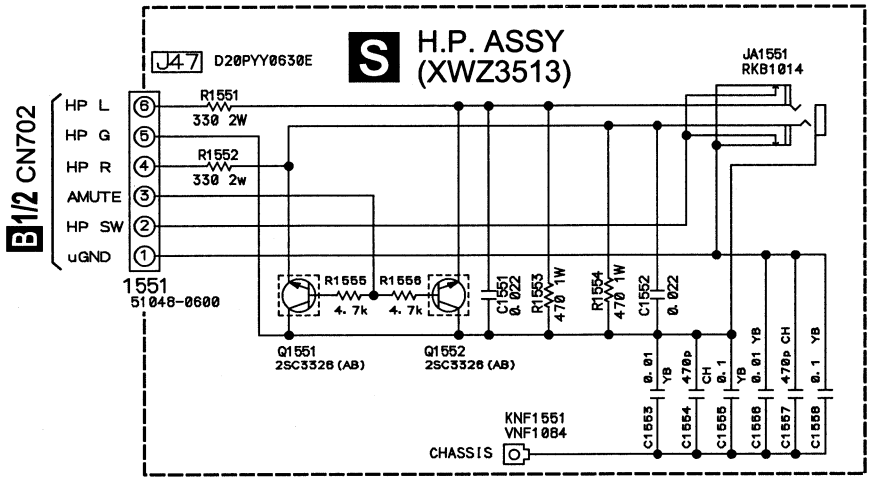
3.13 FRONT, R. ENCODER and POWER SW ASSYS



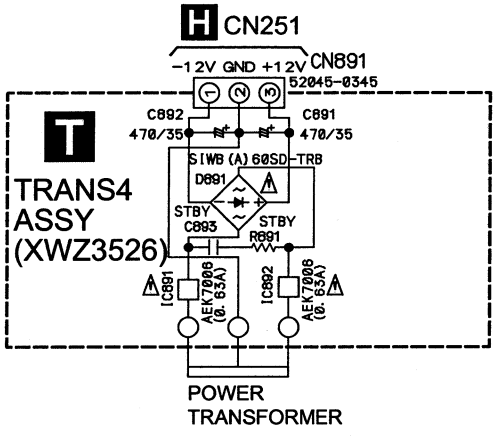

(402 FL HOLDER VNF1096-)
NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capacitors.
JA:CEJA
3. DIODES
Indicated in 1SS355-TRB.
4. TACT SWITCHES
Indicated in ASG1051.
POWER SW ASSY (XWZ3510)
J41
D15A04-125-2851
(POWER SW)
Q471
DTA124EK
POWER SW ASSY
S501 : POWER STANDBY/ON
FRONT ASSY
S451 : SIGNAL SELECT
S452 : MIDNIGHT /LOUDNESS
S453 : SPEAKER
S454 : MONITOR
S455 : TONE
S456 : SETUP
S457 : ADVANCED SURR
S458 : DIRECT
S459 : EON MODE
S460 : PTY SEARCH
S461 : MPX
S462 : BAND
S463 : STANDARD
S464 : TUNING(+)
S465 : TUNING(–)
S466 : STATION(+)
S467 : STATION(–)
S468 : MULTI JOG
S476 : CLASS
KEY IN VOLTAGE [V]
IC401
PDG268B
IC481
BU1923F-TBB
ASS7004- -T
4.332MHz
ASS7039
7.2MHz
Q481
2SA1037K
Q482
DTC143EK
Q483
2SC3326

3.14 FRONT VIDEO and H.P. ASSYS

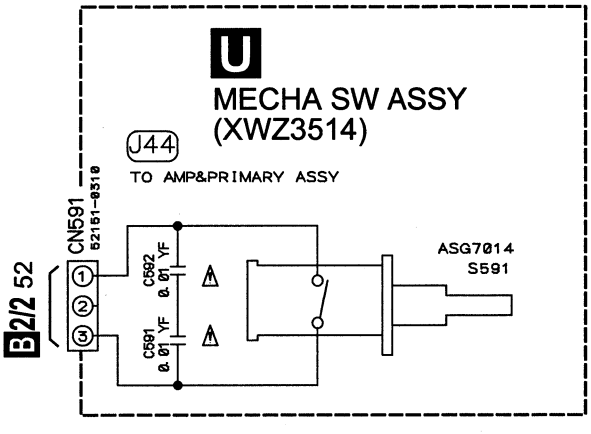




3.15 TRANS4 and MECHA SW ASSYS

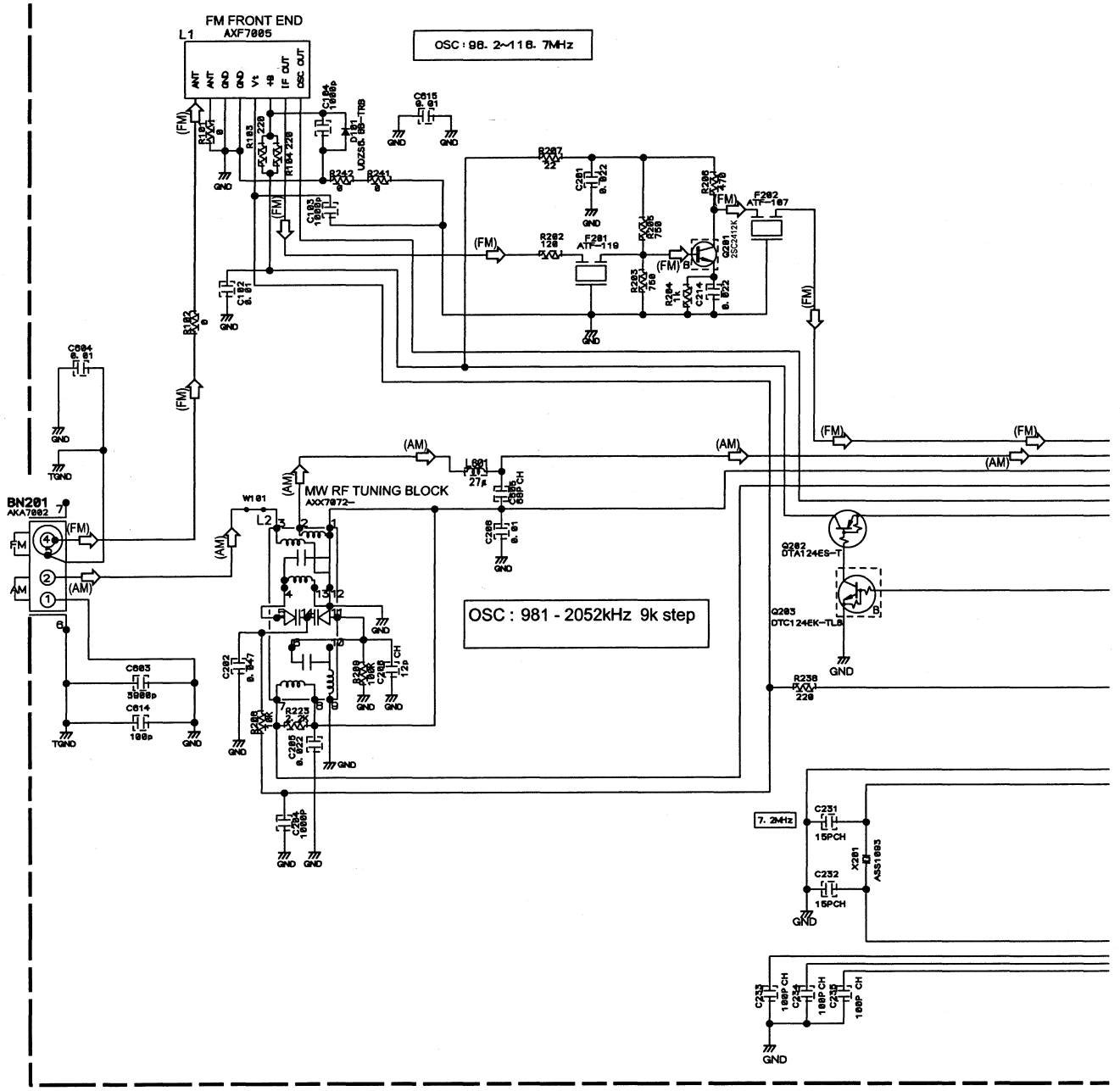


CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.630 FOR IC891 AND IC892 MFD, BY LITTELFUSE INC.



3.16 FM/AM TUNER MODULE

V FM/AM TUNER MODULE (AXQ7232)

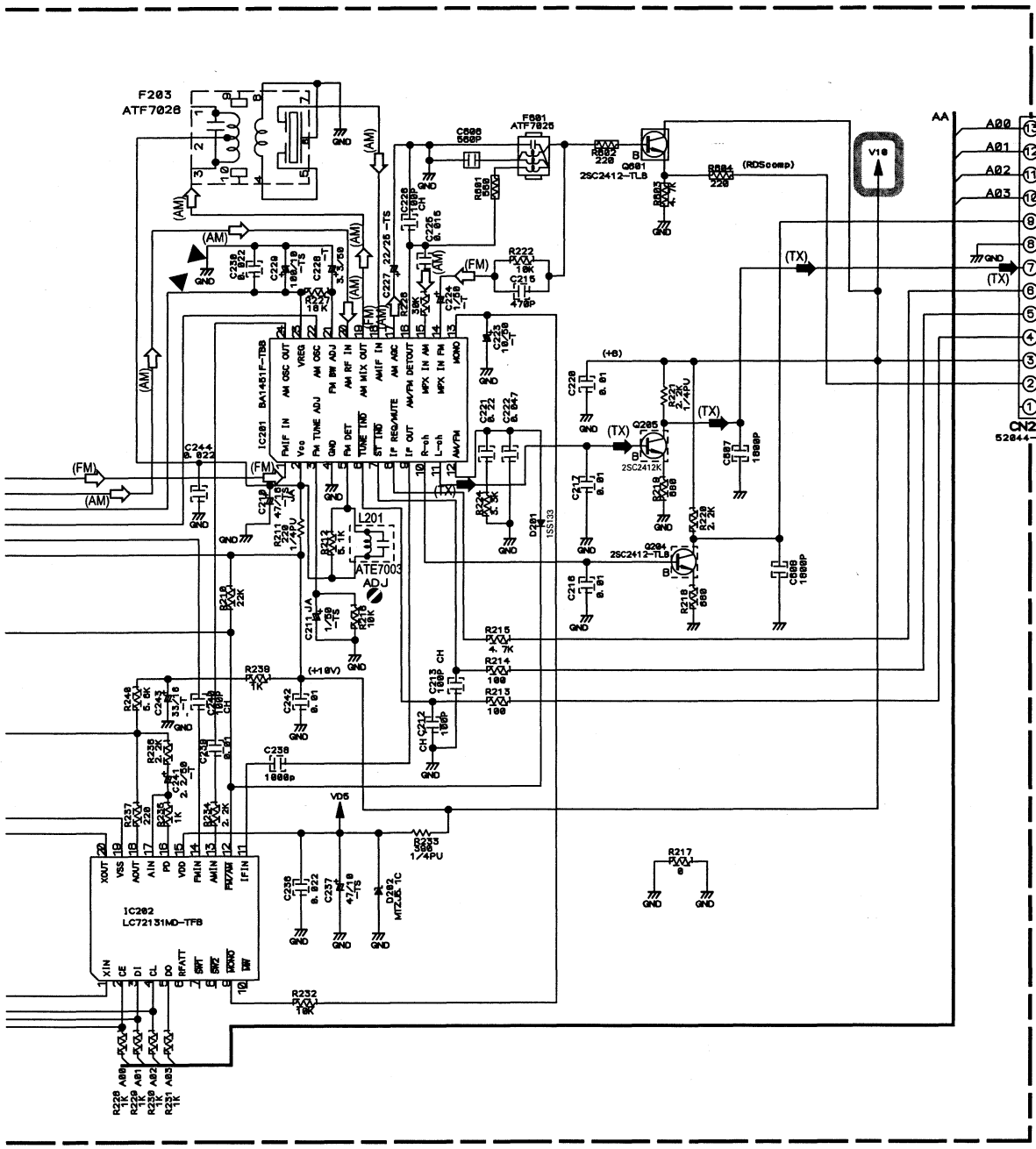


Notes

: The power supply is shown with the marked box.

1. RESISTORS
   Indicated in Ω, 1/16W±5% Tolerance unless otherwise noted K:KΩ, M:MΩ.
2. CAPACITORS
   Indicated in Capacity (μF)/VOLTAGE (V) unless otherwise noted P:PF.
3. DIODES
   No mark diode is 1SS133.

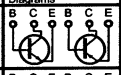
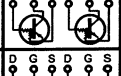
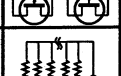
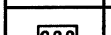
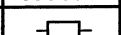
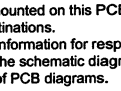
(TX) : AUDIO SIGNAL ROUTE (TUNER)
(AM) : AM SIGNAL ROUTE
(FM) : FM SIGNAL ROUTE



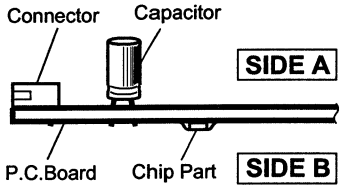
4. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

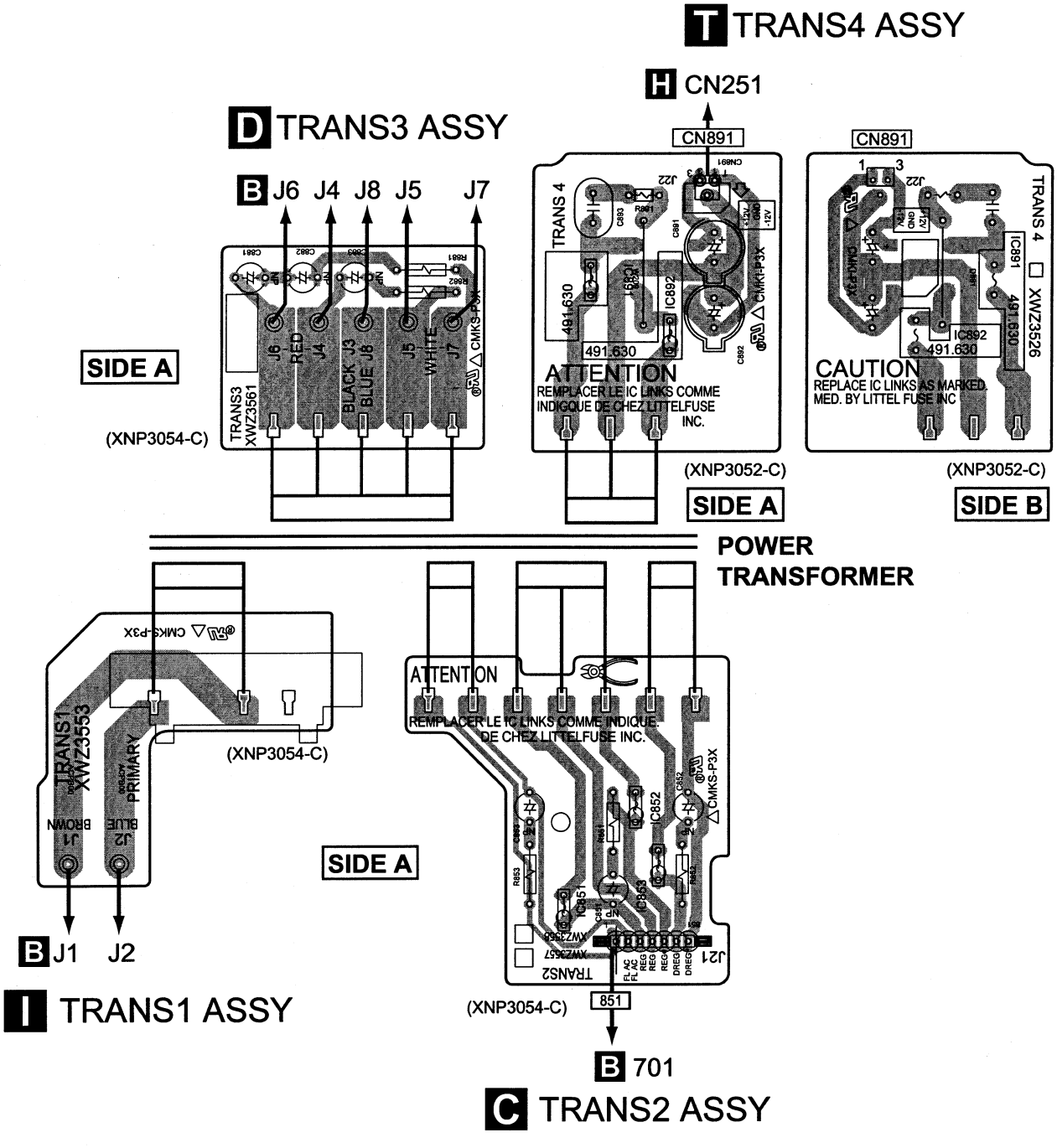
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

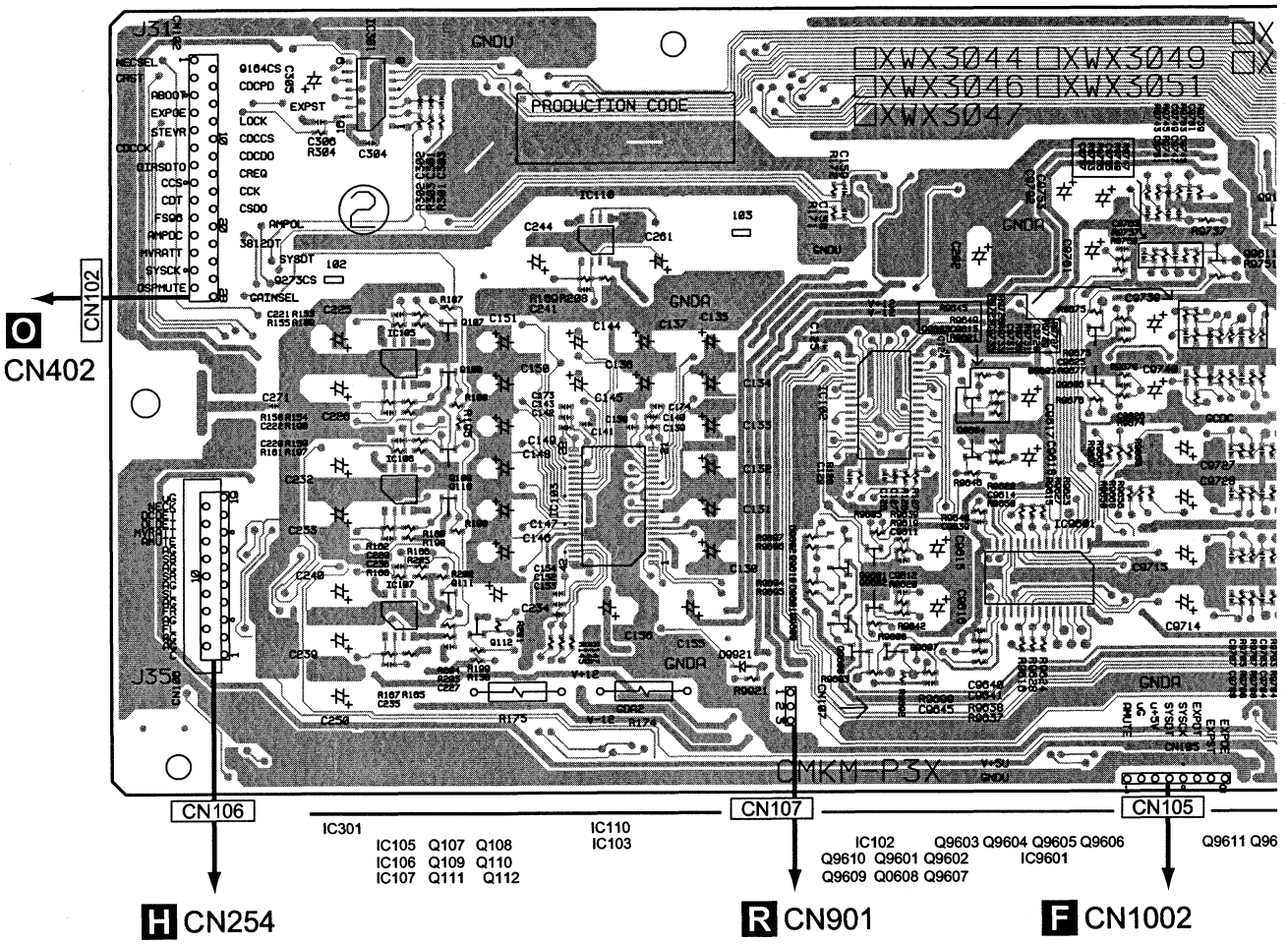


4.1 TRANS 1, TRANS 2, TRANS 3 and TRANS 4 ASSYS

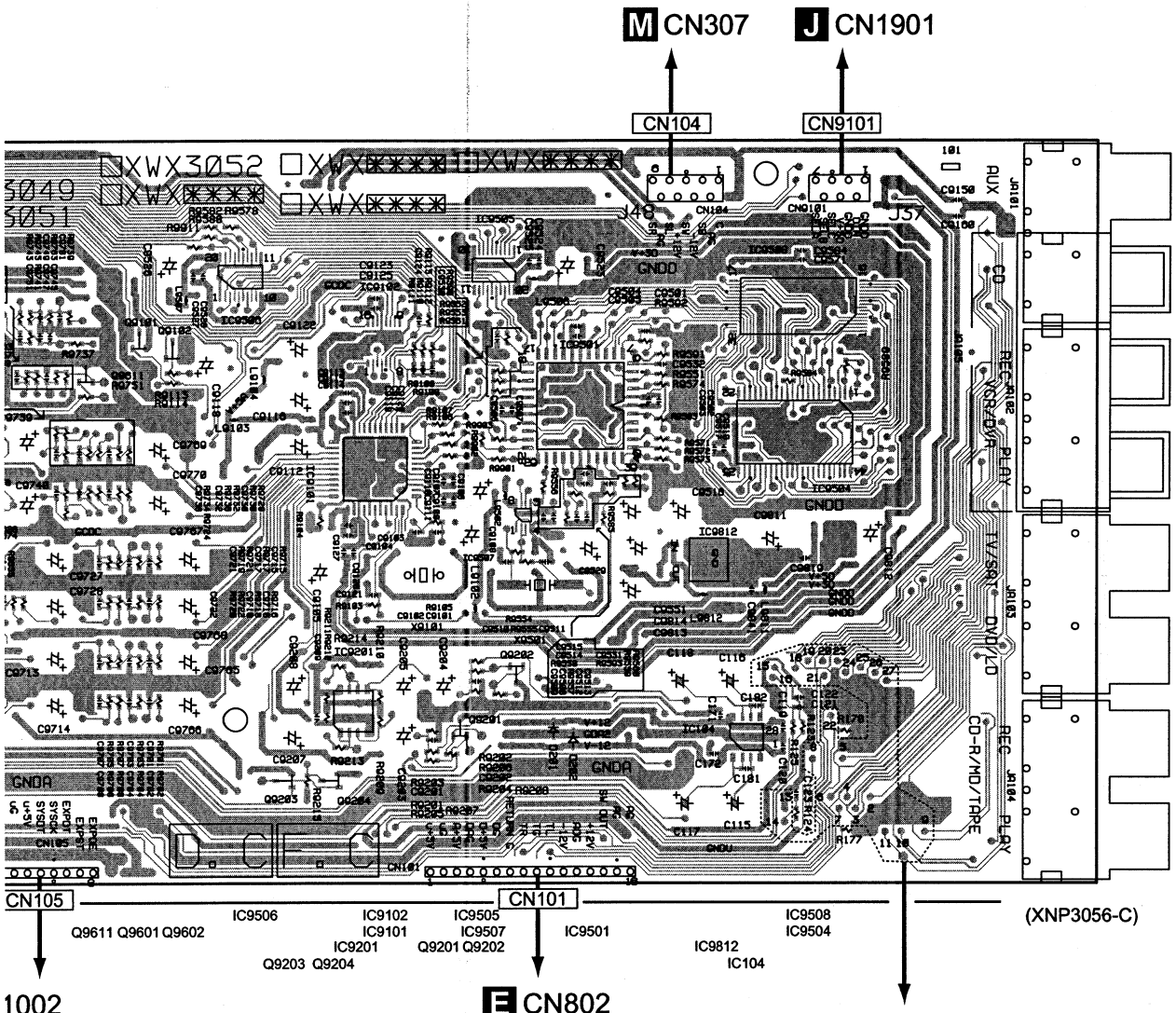


4.2 DD & INPUT ASSY

A D.D & INPUT ASSY



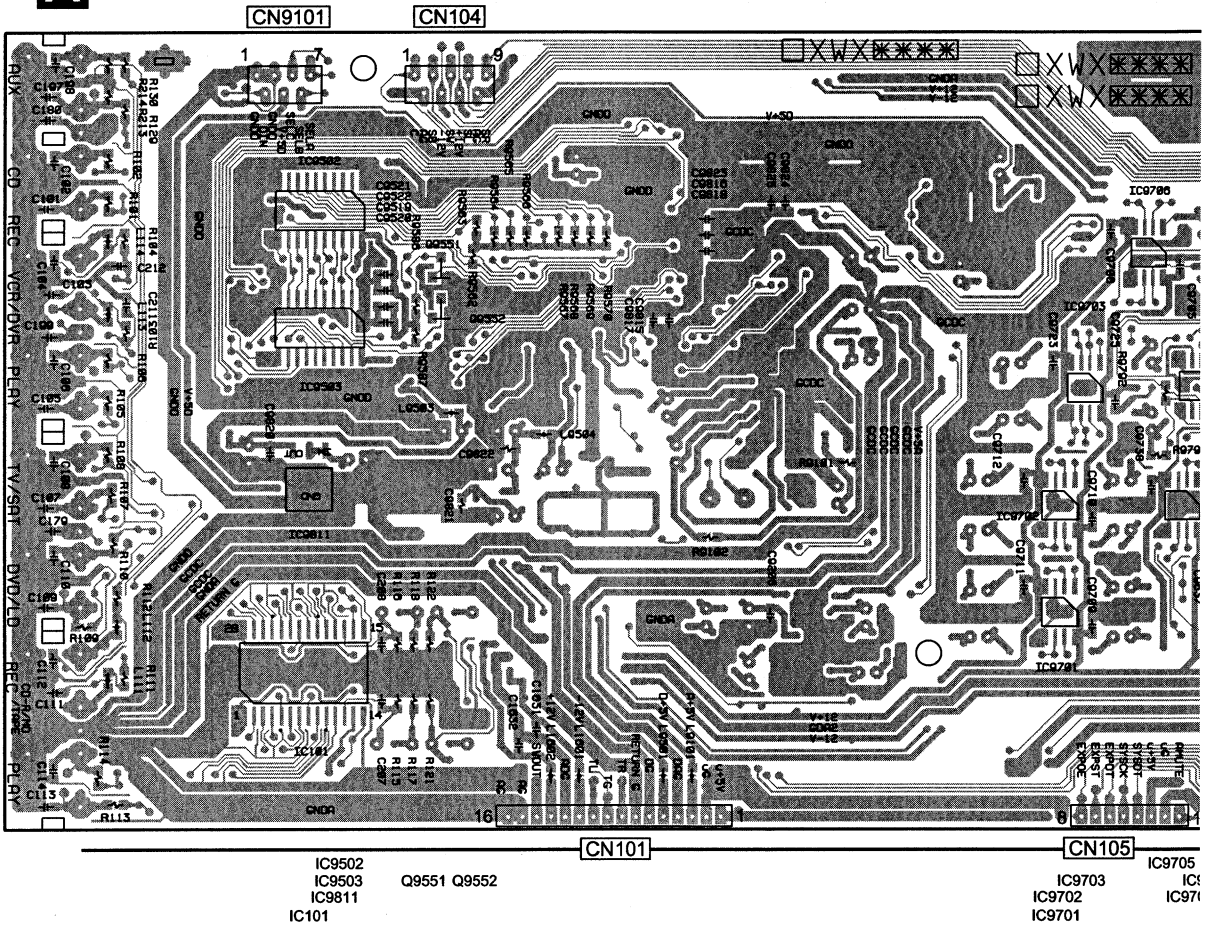
SIDE A



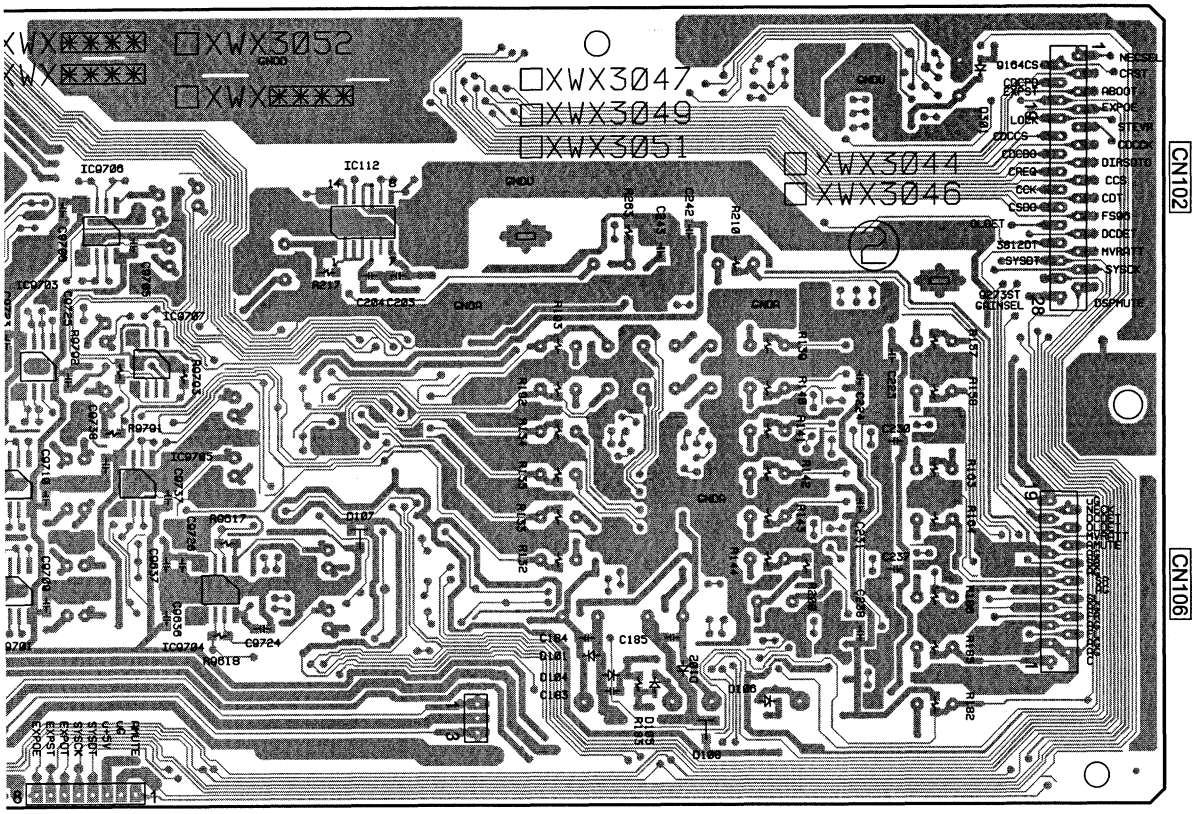
Note : The pin of function IC (IC101 TC9273F-007) can be checked from side-A by the through-hole round. The pin No. is printed on the side-A.

Even if the FM/AM TUNER MODULE is disconnected, other functions can operate.

A D.D & INPUT ASSY

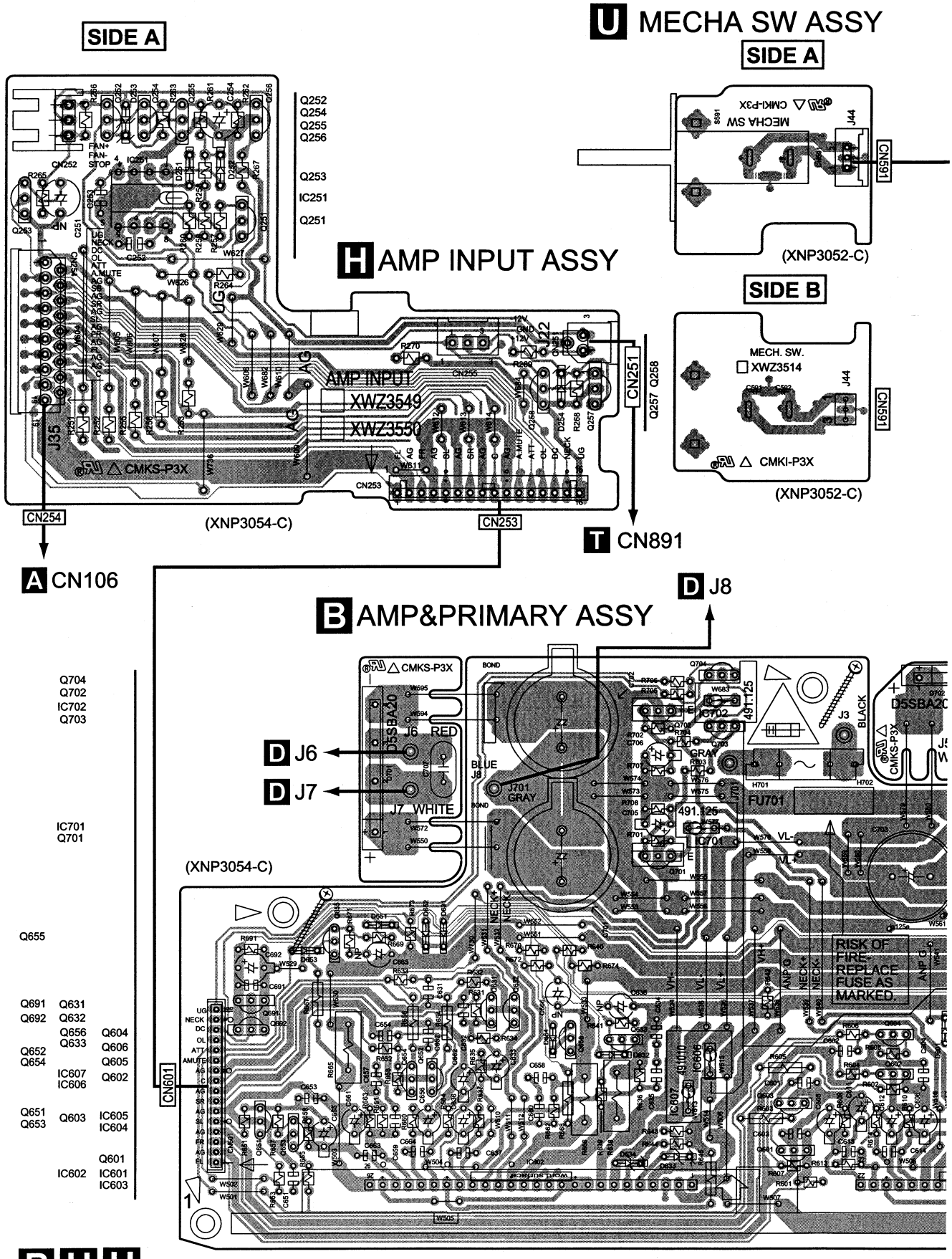


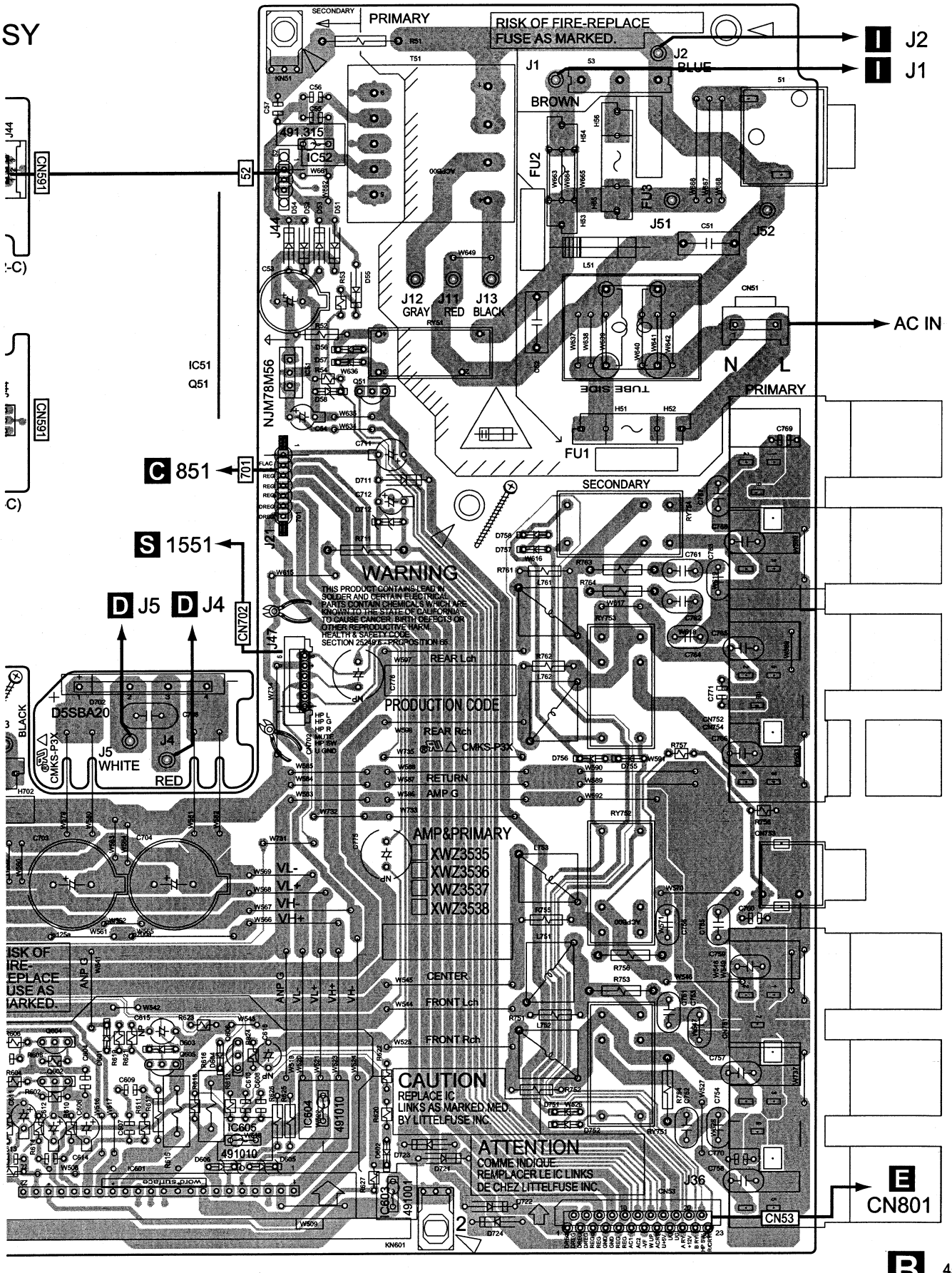
SIDE B



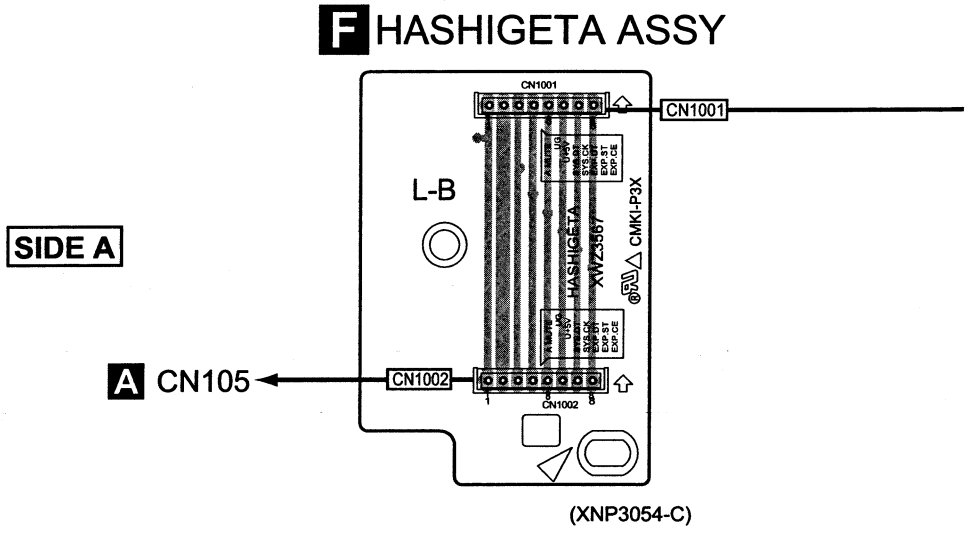
(XNP3056-C)

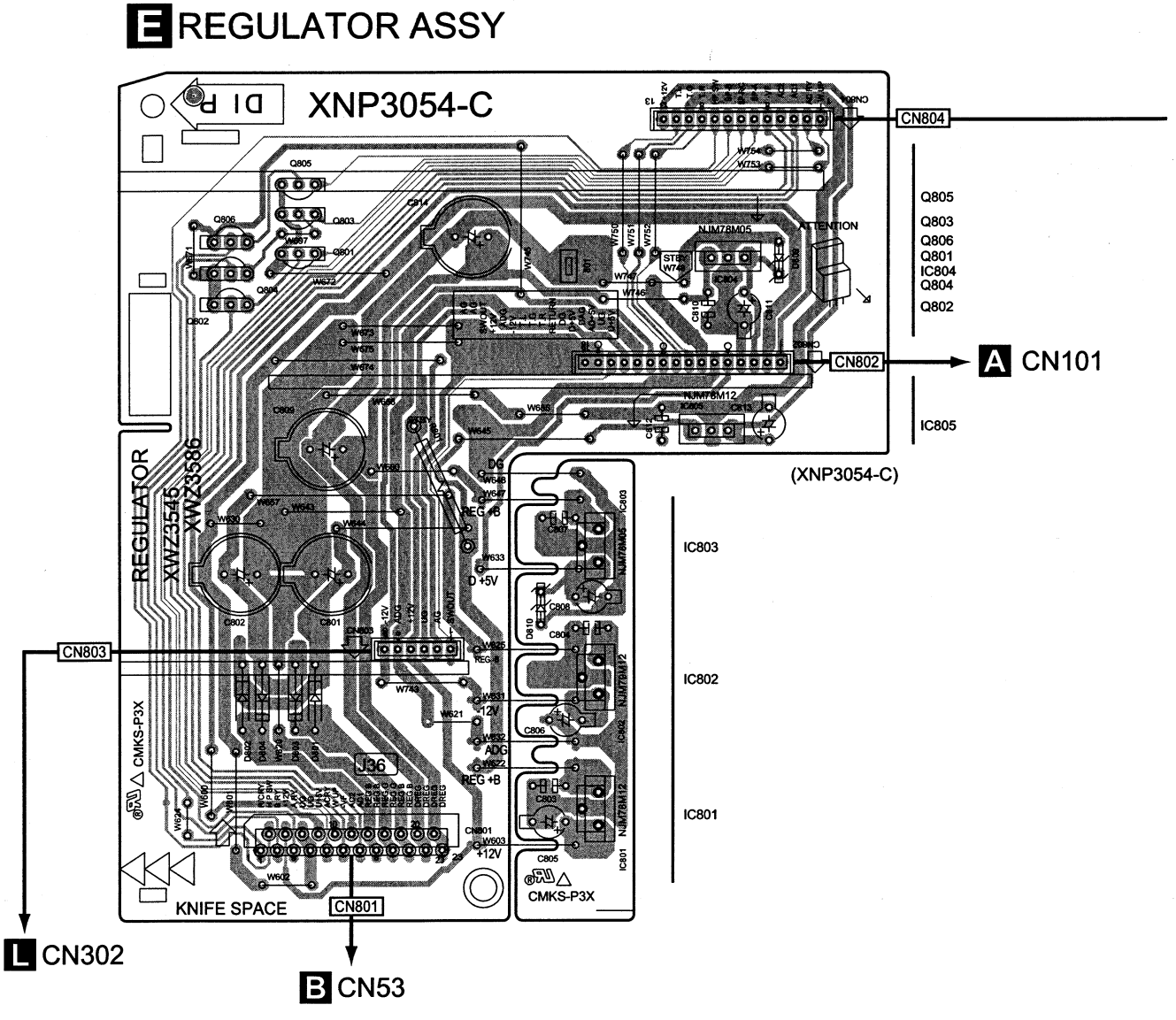
4.3 AMP & PRIMARY, AMP INPUT and MECHA SW ASSYS

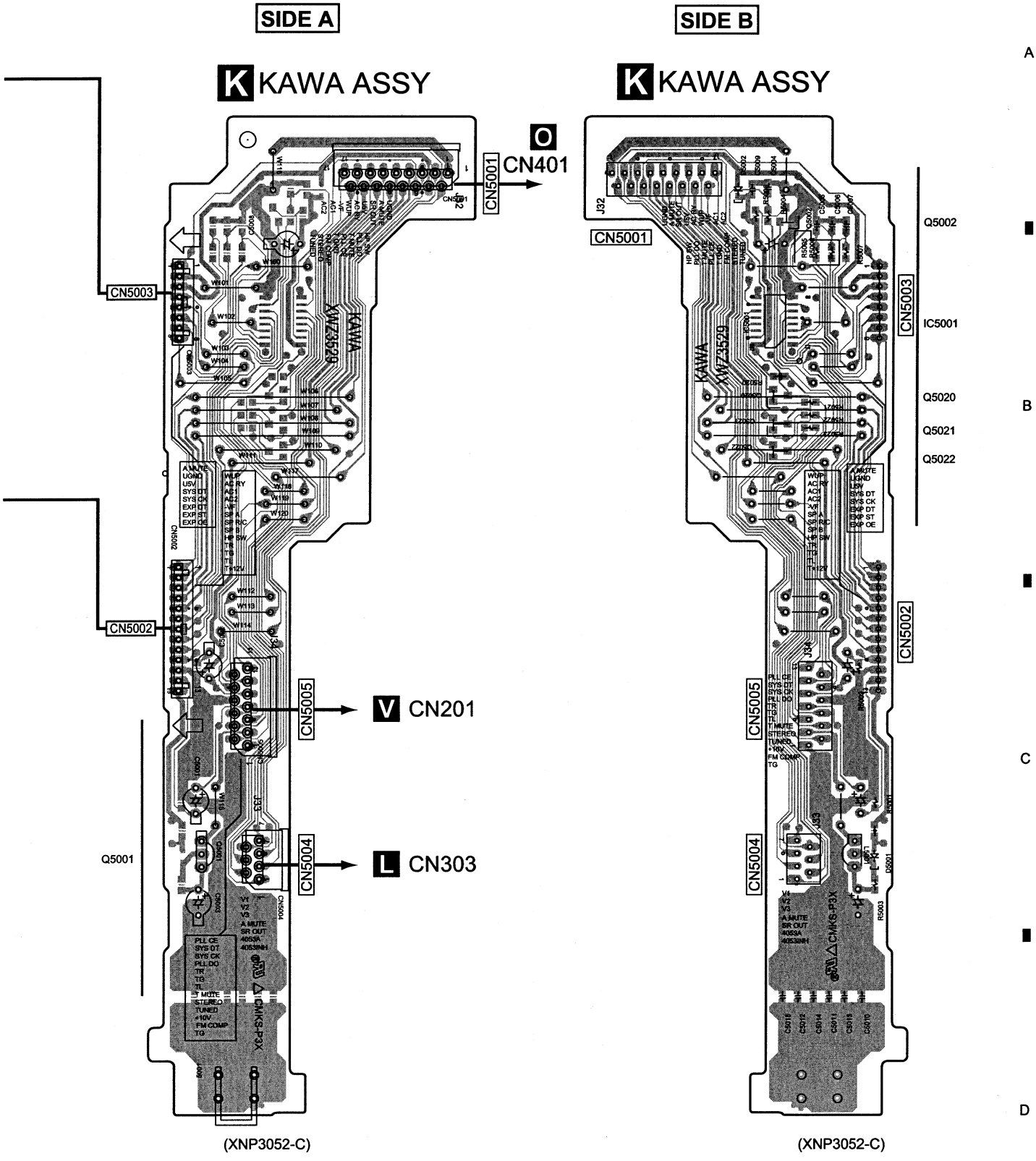



SY
SECONDARY
PRIMARY
RISK OF FIRE-REPLACE FUSE AS MARKED.
J2
BLUE
J1
BROWN
491 315
IC52
FU2
FU3
J51
J52
J12 GRAY
J11 RED
J13 BLACK
AC IN
N
L
TUBE SIDE
FU1
PRIMARY
IC51
Q51
NJM78M56
C 851
S 1551
D J5
D J4
CN702
CN691
WARNING
THIS PRODUCT CONTAINS LEAD IN SOLDER AND CERTAIN ELECTRICAL PARTS CONTAIN CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. HEALTH & SAFETY CODE SECTION 25249.6 – PROPOSITION 65
SECONDARY
REAR Lch
PRODUCTION CODE
REAR Rch
RETURN
AMP G
AMP&PRIMARY
XWZ3535
XWZ3536
XWZ3537
XWZ3538
CENTER
FRONT Lch
FRONT Rch
CAUTION
REPLACE IC LINKS AS MARKED. MFD. BY LITTELFUSE INC.
ATTENTION
COMME INDIQUE REMPLACER LE IC LINKS DE CHEZ LITTELFUSE INC.
D5SBA20
J5 WHITE
J4 RED
BLACK
CMKS-P3X
IC605
IC604
491010
491001
J36
CN53
E CN801
KN601

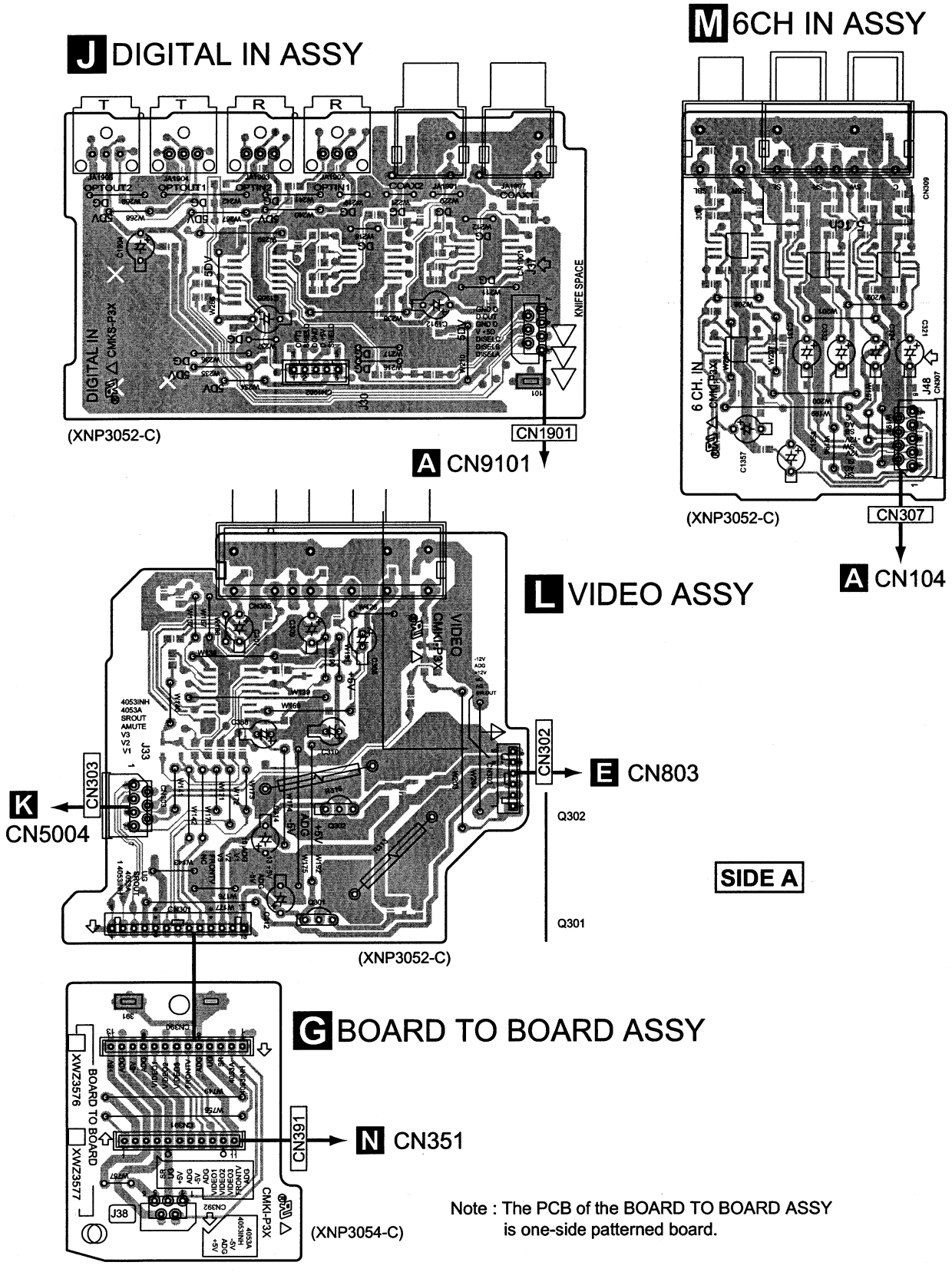
4.4 REGULATOR, HASHIGETA and KAWA ASSYS





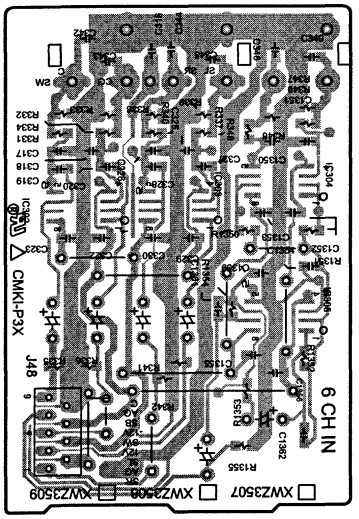

SIDE A
SIDE B
K KAWA ASSY
K KAWA ASSY
O CN401
CN5001
CN5003
CN5002
CN5005
V CN201
CN5004
L CN303
Q5001
Q5002
IC5001
Q5020
Q5021
Q5022
KAWA
XWZ3529
(XNP3052-C)
(XNP3052-C)

4.5 BOARD TO BOARD, DIGITAL IN, VIDEO and 6CH IN ASSYS

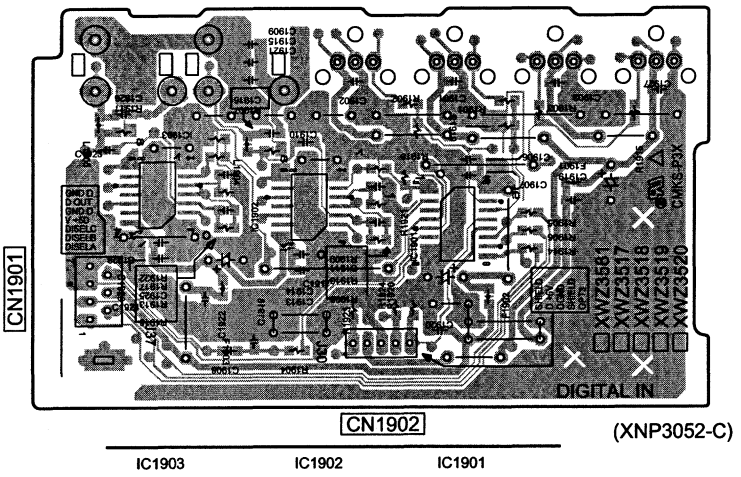


Note : The PCB of the BOARD TO BOARD ASSY is one-side patterned board.

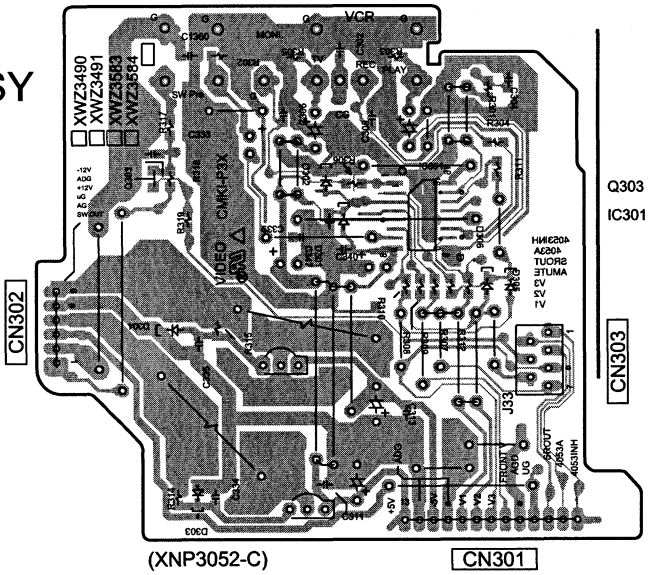
M 6CH IN ASSY



J DIGITAL IN ASSY



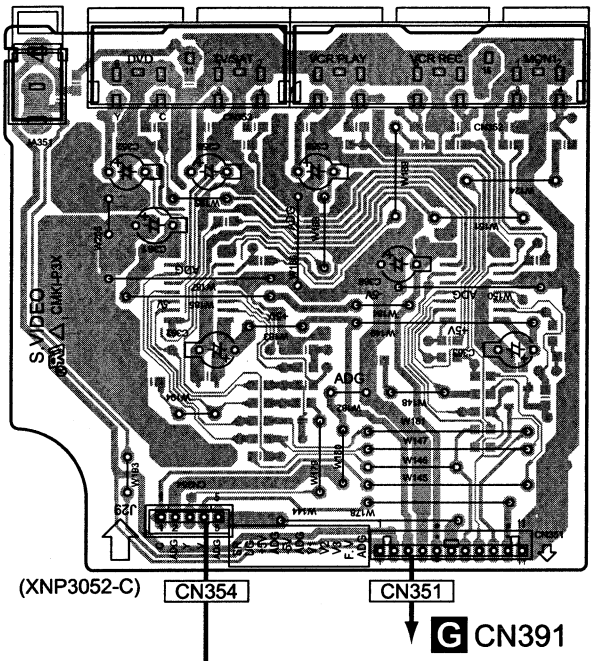
L VIDEO ASSY



SIDE B

4.6 S. VIDEO and FRONT VIDEO ASSYS

SIDE A

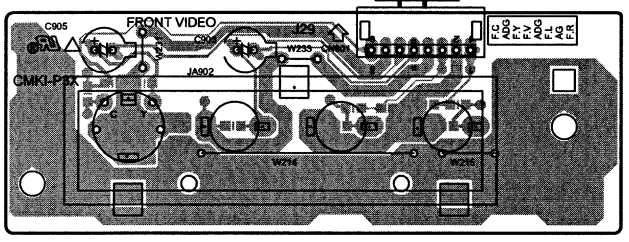


N S. VIDEO ASSY

G CN391

A CN107

CN901

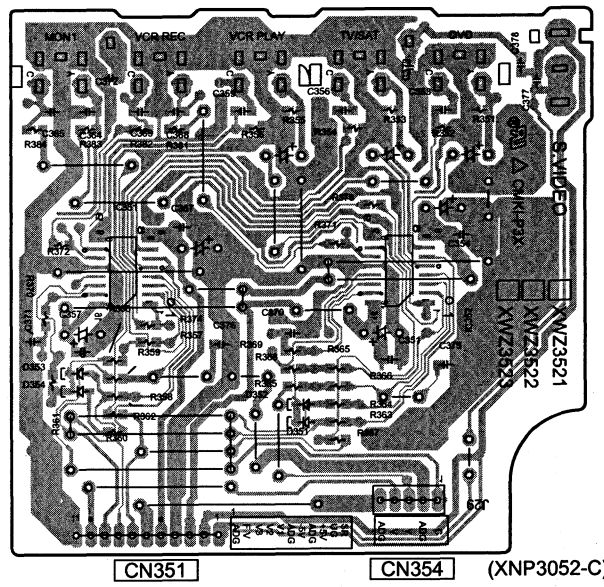


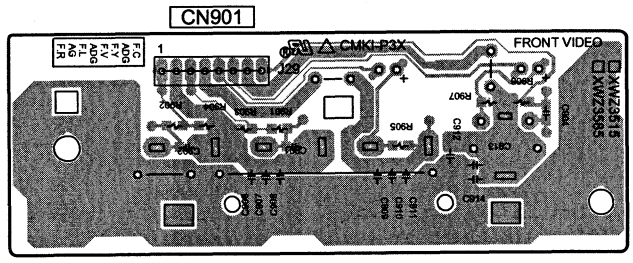
(XNP3052-C)

R FRONT VIDEO ASSY

SIDE B

N S. VIDEO ASSY

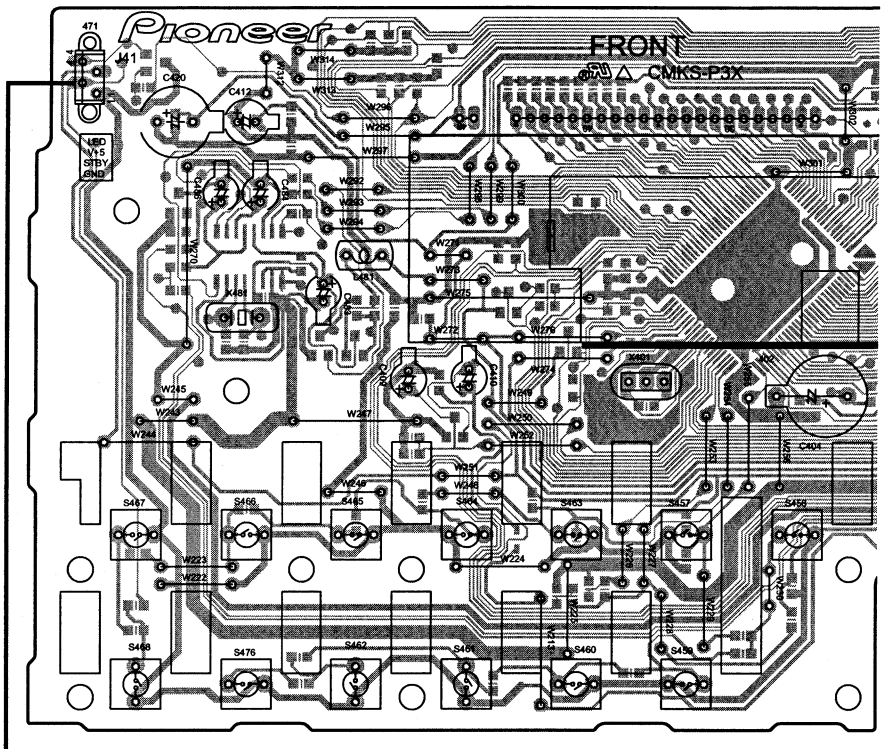


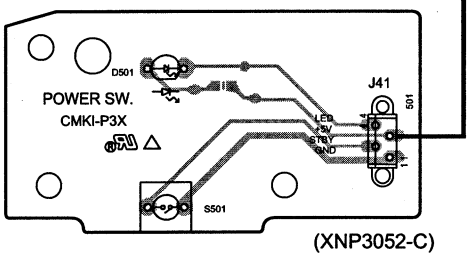


R FRONT VIDEO ASSY

4.7 FRONT, POWER SW, H.P. and R. ENCODER ASSYS

O FRONT ASSY



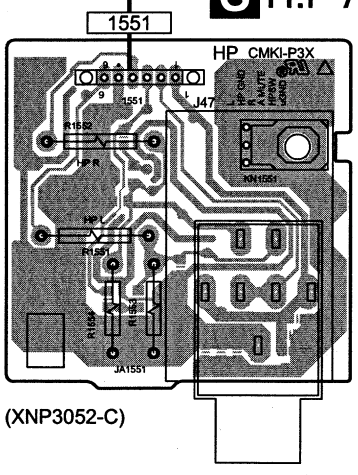


(XNP3052-C)

Q POWER SW ASSY

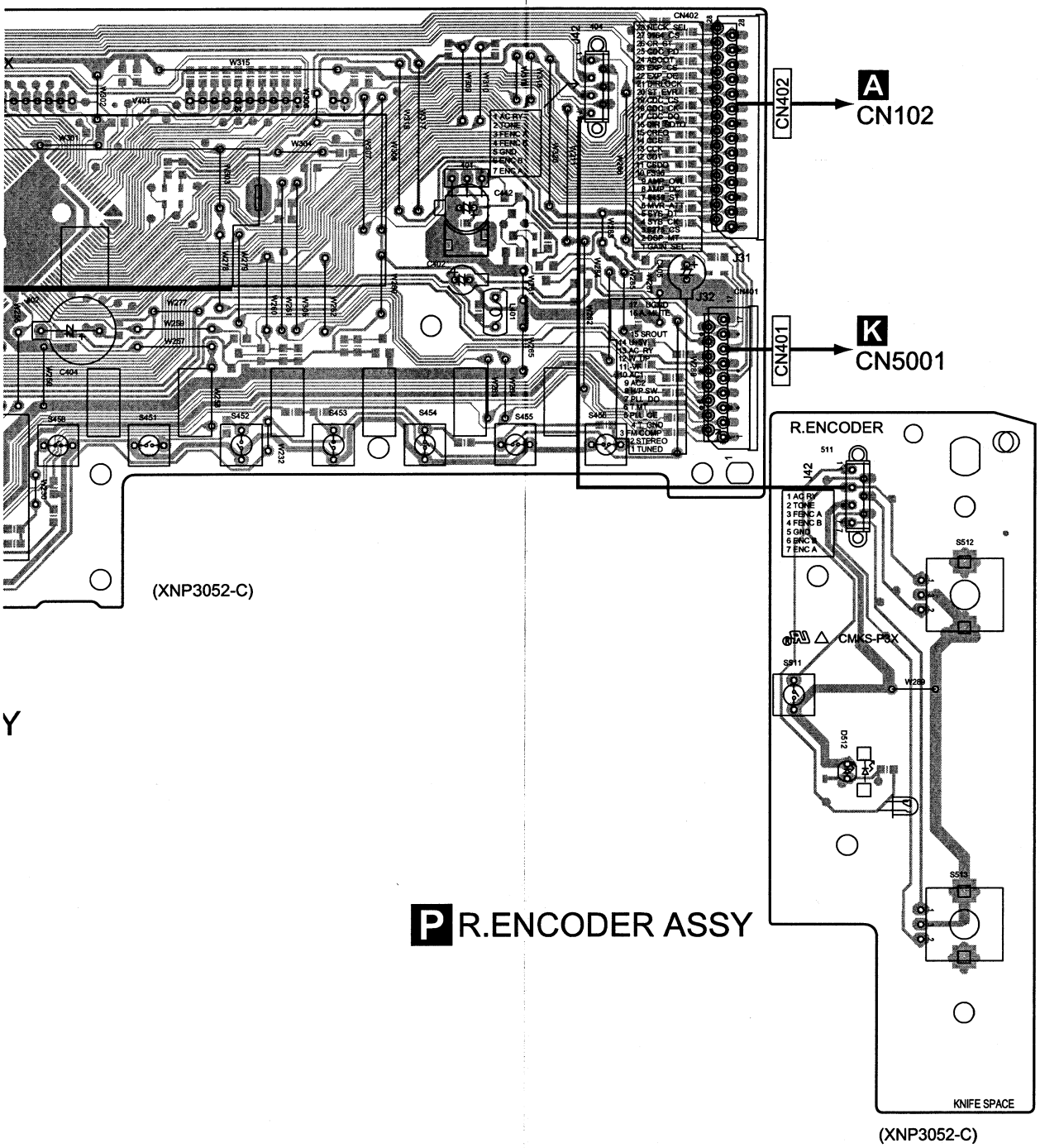
B CN702

S H.P ASSY



(XNP3052-C)

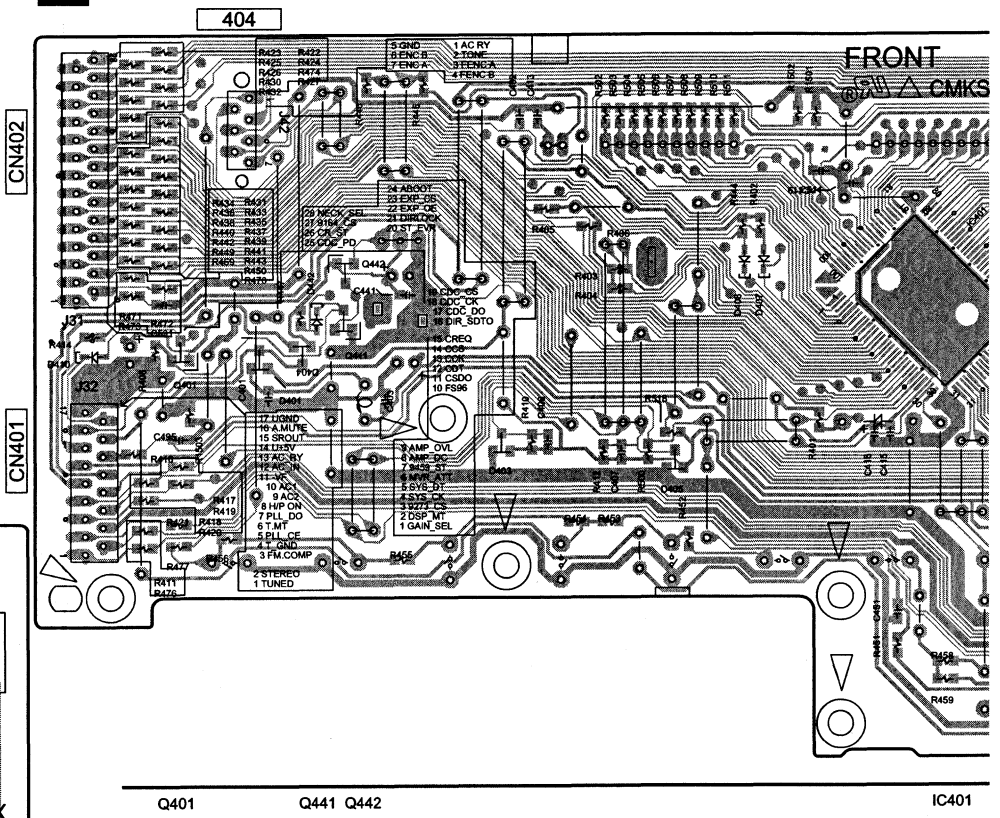
SIDE A

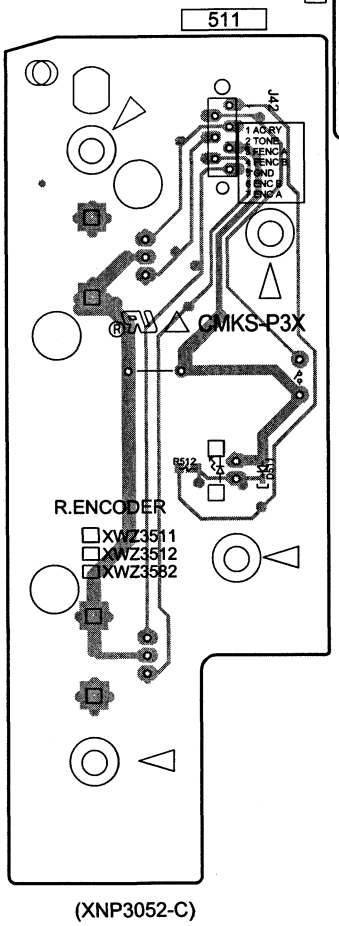


Y

P R.ENCODER ASSY

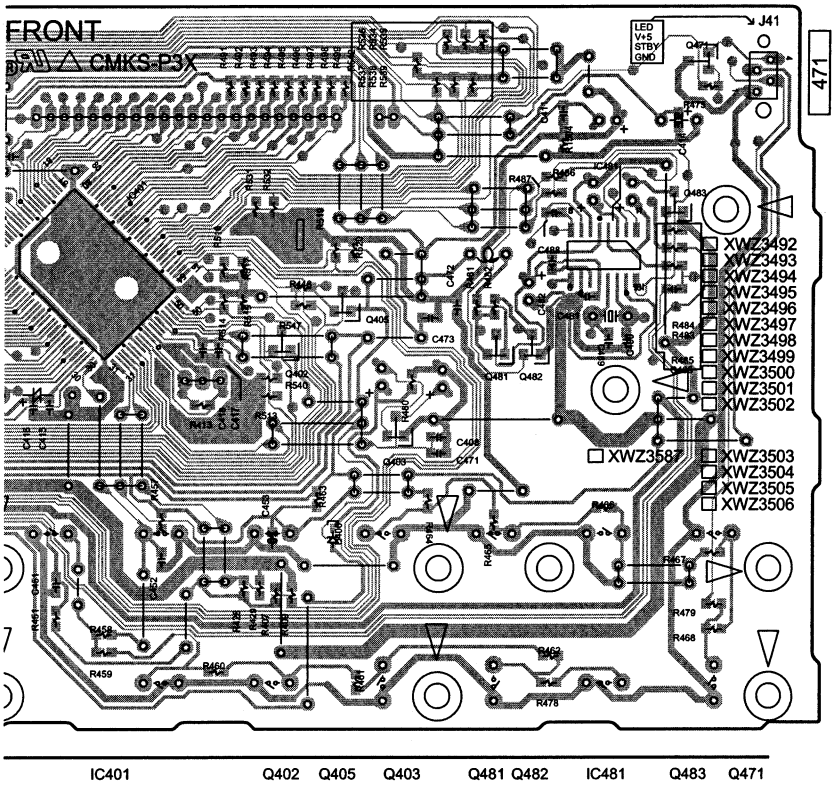
O FRONT ASSY





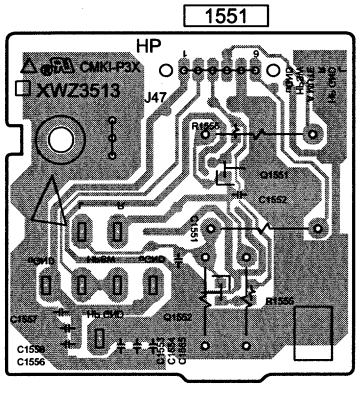
P R.ENCODER ASSY

SIDE B

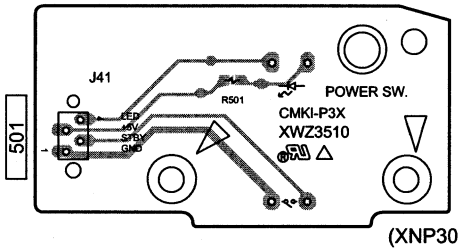


(XNP3052-C)

S H.P ASSY



(XNP3052-C)



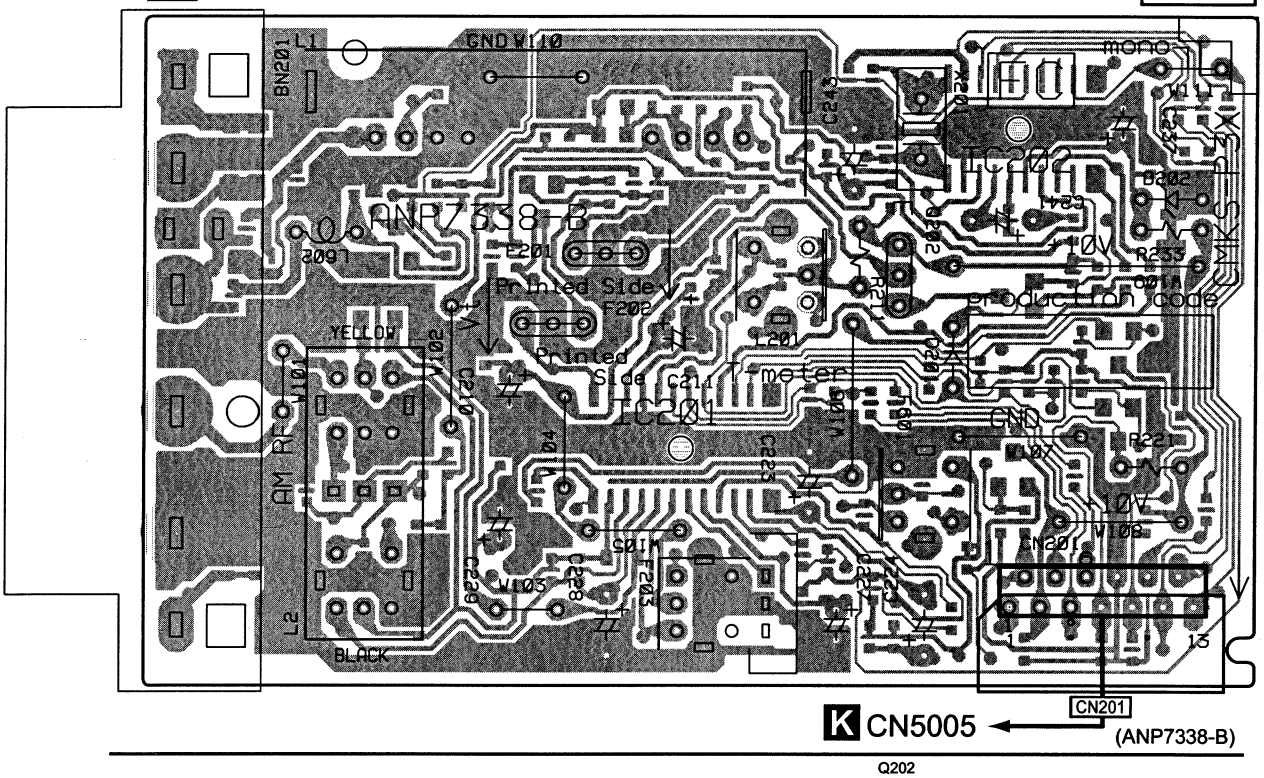
(XNP3052-C)

Q POWER SW ASSY

4.8 FM/AM TUNER MODULE

V FM/AM TUNER MODULE

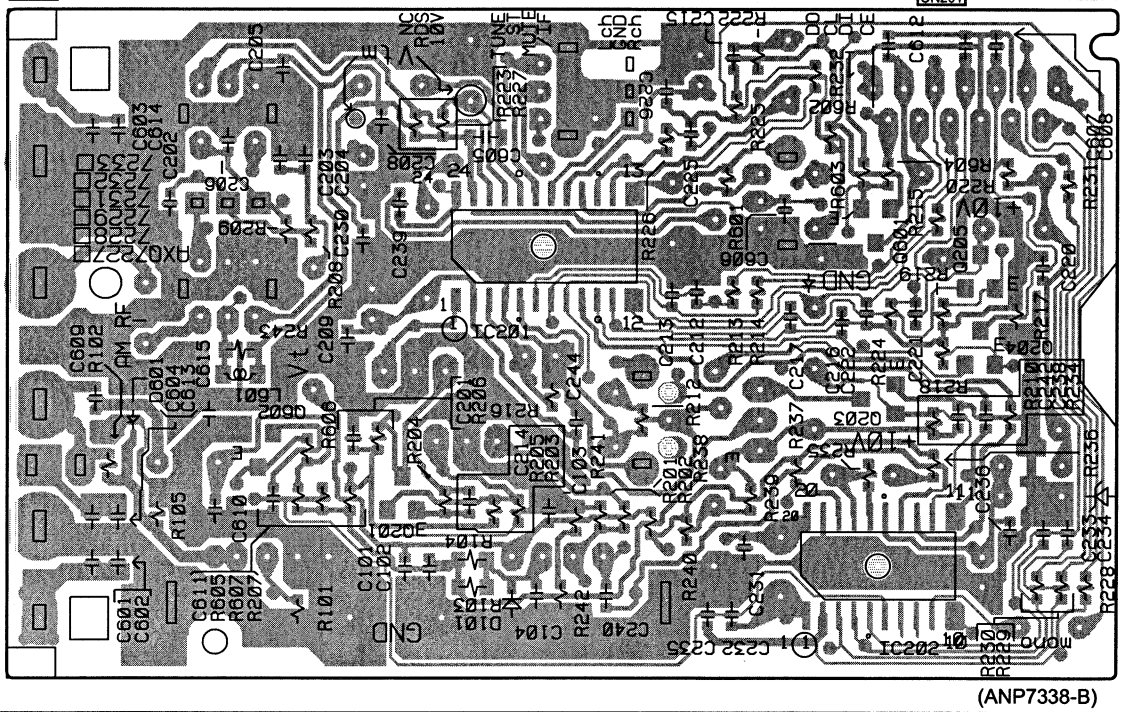
SIDE A



Q202

V FM/AM TUNER MODULE

SIDE B



Q201 IC201 Q203 IC202 Q205 Q204

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→	*56 × 10¹*	→	*561* ..... *RD1/4PU 5 6 1 J*
47k Ω	→	*47 × 10³*	→	*473* ..... *RD1/4PU 4 7 3 J*
0.5 Ω	→	*R50*		..... *RN2H R 5 0 K*
1 Ω	→	*1R0*		..... *RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	→	*562 × 10¹*	→	*5621* ..... *RN1/4PC 5 6 2 1 F*

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
		D.D & INPUT ASSY	XWX3047
NSP		AMP&PS ASSY	XWK3057
		├AMP&PRIMARY ASSY	XWZ3537
		├TRANS2 ASSY	XWZ3558
NSP		├TRANS3 ASSY	XWZ3561
		├REGULATOR ASSY	XWZ3545
		├HASHIGETA ASSY	XWZ3567
		├BOARD TO BOARD ASSY	XWZ3575
		├AMP INPUT ASSY	XWZ3550
NSP		└TRANS1 ASSY	XWZ3553
NSP		COMPLEX ASSY	XWK3043
		├DIGITAL IN ASSY	XWZ3518
		├KAWA ASSY	XWZ3529
		├VIDEO ASSY	XWZ3584
		├6CH IN ASSY	XWZ3507
		├S. VIDEO ASSY	XWZ3522
		├FRONT ASSY	XWZ3498
		├R. ENCODER ASSY	XWZ3511
		├POWER SW ASSY	XWZ3510
		├FRONT VIDEO ASSY	XWZ3515
		├H.P. ASSY	XWZ3513
		├TRANS 4 ASSY	XWZ3526
		└MECHA SW ASSY	XWZ3514
		FM/AM TUNER MODULE	AXQ7232
AMP & PS ASSY			
OTHERS			
	J44	Jumper wired	D20PYY0325E
	J21	Jumper wired	D20PYY0715E
COMPLEX ASSY			
OTHERS			
	J41	Jumper wired	D15A04-100-2651
	J42	Jumper wired	D15A07-075-2651
	J47	Jumper wired	D20PYY0630E
A D.D & INPUT ASSY			
SEMICONDUCTORS			
	IC9101		AK4586VQ
	IC301		BU4094BCF
	IC9501		CS493292
	IC103		M62446FP
	IC9201		NJM2100M
	IC9812		NJM2391DL1-25
	IC9811		NJM2391DL1-33
	IC102		NJU7312AM
	IC9601		NJU7313AM
	IC9504		PD8097A
	IC9505		TC74LVX244FT
	IC9502, IC9503		TC74VHC574F
	IC9506		TC74VHCT244AFT
	IC9507		TC7WU04FU
	IC101		TC9273F-007
	IC104-IC107, IC9701-IC9705		UPC4570G2
	IC9707		UPC4570G2
	Q107-Q112, Q9201, Q9202		2SC3326
	Q9101, Q9204, Q9607, Q9609		DTA124EK
	Q9610		DTA124EK
	Q9102, Q9203, Q9608		DTC124EK
	D9601, D9602		1SS181
	D105, D106, D301, D9921		1SS355
	D107, D108		DAN217
	D201, D202		RB501V-40
	D104		UDZS5.1B
	D101, D102		UDZS6.8B
COILS AND FILTERS			
	L9101, L9501, L9504, L9811, L9812		ATL7002
	L111-L114, L1601, L1602		QTL1013
	L9102, L9103, L9502, L9503		QTL1013
	L9506, L9507		QTL1013
CAPACITORS			
	C9510, C9511		CCSRCH100D50
	C101-C114, C121-C123		CCSRCH101J50
	C126-C128, C152-C154		CCSRCH101J50
	C197, C198, C207, C208		CCSRCH101J50
	C221, C222, C228, C229, C9160		CCSRCH101J50
	C9201, C9202		CCSRCH101J50
	C9101, C9102		CCSRCH220J50
	C235, C9117		CCSRCH221J50
	C9509		CCSRCH271J50
	C9530, C9731, C9735		CCSRCH331J50
	C9103, C9110, C9111, C9114, C9503		CCSRCH471J50
	C9505, C9507, C9513, C9515, C9518		CCSRCH471J50
	C9520, C9522, C9525, C9528, C9571		CCSRCH471J50
	C9611-C9614, C9625, C9639, C9729		CCSRCH471J50
	C9815, C9816		CCSRCH471J50
	C9707, C9708, C9721, C9722		CCSRCH820J50
	C130-C137, C146-C151, C305		CEAT100M50
	C9207, C9208, C9523, C9526		CEAT100M50
	C9105, C9106, C9108, C9116, C9516		CEAT101M10
	C9551, C9792, C9812, C9814		CEAT101M10

Mark	No.	Description	Part No.
	C9740		CEAT220M25
	C9205		CEAT221M6R3
	C9112, C9529, C9769, C9770		CEAT2R2M50
	C9713, C9714, C9727, C9728, C9739		CEAT330M25
	C9765-C9768		CEAT330M25
	C144, C145		CEAT3R3M50
	C117, C118, C225, C226		CEAT470M50
	C232, C233, C239		CEAT470M50
	C155, C156		CEAT471M10
	C115, C116, C234, C240		CEAT4R7M50
	C9203, C9204, C9615-C9618, C9811		CEAT4R7M50
	C9813		CEAT4R7M50
	C271, C9703, C9704, C9717, C9718		CKSRYB102K50
	C119, C120, C124, C125, C138		CKSRYB103K50
	C141, C171, C172, C179, C180		CKSRYB103K50
	C183, C199, C223, C224		CKSRYB103K50
	C230, C231, C237, C238, C304		CKSRYB103K50
	C9104, C9107, C9109, C9121, C9209		CKSRYB103K50
	C9502, C9504, C9506, C9508, C9512		CKSRYB103K50
	C9514, C9517, C9519, C9521, C9524		CKSRYB103K50
	C9527, C9531, C9584, C9636, C9637		CKSRYB103K50
	C9709-C9712, C9723-C9726		CKSRYB103K50
	C9737, C9738, C9817		CKSRYB103K50
	C140, C143, C1631, C1632		CKSRYB104K16
	C173, C174, C9113, C9115, C9126		CKSRYB104K16
	C9206, C9818		CKSRYB104K16
	C9701, C9702, C9715, C9716		CKSRYB222K50
	C9736		CKSRYB223K25
	C139, C142, C9626		CKSRYB223K50
	C236		CKSRYB472K50
	C184, C185, C9732		CKSRYB473K25
	C227, C9730		CKSRYF104Z25
RESISTORS			
	R9104		RS1/16S1802F
⚠	R174, R175		RS1LMF101J
	Other Resistors		RS1/16S□□□J
OTHERS			
	CN9101	7P FFC Connector	52044-0745
	CN104	9P FFC Connector	52044-0945
	CN106	19P FFC Connector	52045-1945
	CN102	28P FFC Connector	52045-2845
	JA101-JA104	4P Pin Jack	AKB7048
	CN107	Connector Post	B3B-PH-K
	CN101	16P Socket	KP200TA16L
	CN105	8P Socket	KP200TA8L
	101-103	PCB Binder	VEF1040
	X9501	(27.0MHz)	VSS1086
	X9101	(12.288MHz)	VSS1140
B AMP & PRIAMRY ASSY			
SEMICONDUCTORS			
⚠	IC52	(IC Protector 500mA)	AEK7005
⚠	IC603	(IC Protector 1A)	AEK7009
⚠	IC701, IC702	(IC Protector 125mA)	AEK7020
⚠	IC604-IC607	(IC Protector 10A)	AEK7022
	IC51		NJM78M56FA
⚠	IC601		PAC010A
⚠	IC602		PAC011A
	Q703		2SA1145
	Q702		2SB1238X
	Q691, Q692		2SC1740S

Mark	No.	Description	Part No.
	Q704		2SC1845
	Q605, Q606, Q633, Q655, Q656		2SC2240
	Q601-Q604, Q631, Q632		2SC2878
	Q651-Q654		2SC2878
	Q701		2SD1859X
	Q51		KRC101M
	D56, D57, D601-D604		1SS133
	D631, D632, D651-D654		1SS133
	D751, D752, D755-D758		1SS133
⚠	D701, D702		D5SBA20(B)
	D711		MTZJ22D
	D58		MTZJ5.1A
	D712		MTZJ5.1B
	D605, D606, D633, D634		MTZJ8.2A
⚠	D51-D55, D721-D724		S5688G
COILS AND FILTERS			
⚠	L51	Line Filter	ATF7018
	L751-L753, L761, L762	Choke Coil	ATH1004
SWITCHES AND RELAYS			
	RY751-RY754	Relay	XSR3002
⚠	RY51	JOE Lowpower Relay	XSR3003
CAPACITORS			
	C707, C708	(0.01μF/AC125V)	ACG1005
⚠	C51, C52	(0.01μF/AC125V)	ACG7020
	C701, C702	(4700μF/63V)	ACH7134
	C703, C704	(3300μF/42V)	ACH7135
	C607-C610, C634, C635		CCPUCH6R8K50
	C657-C660		CCPUCH6R8K50
	C615, C616, C638, C665, C666		CEANP2R2M50
	C775, C778		CEANP470M50
	C705, C706		CEAT100M2A
	C712		CEAT101M10
	C611, C612, C636, C661, C662		CEAT101M16
	C711		CEAT101M35
	C53		CEAT102M16
	C692		CEAT221M10
	C54		CEAT470M25
	C605, C606, C633, C655, C656		CEAT4R7M50
	C751-C756, C761-C764		CFTYA224J50
	C613, C614, C637, C663, C664		CKPUYB101K50
	C601, C602, C631, C651, C652		CKPUYB102K50
	C691, C769, C770		CKPUYB102K50
	C603, C604, C632, C653, C654		CKPUYB331K50
	C55-C57		CKPUYF103Z25
	C757-C759, C765-C768		CQMBA472J50
RESISTORS			
⚠	R52		RD1/2PM270J
⚠	R751, R752, R755, R761, R762		RD1/4PUF101J
⚠	R753, R754, R756, R763, R764		RS1LMF4R7J
⚠	R711		RS2LMF332J
⚠	R615, R616, R638, R665	(0.22Ω/5W)	XCN3001
	R666	(0.22Ω/5W)	XCN3001
	Other Resistors		RD1/4PU□□□J
OTHERS			
	52	3P Cable Holder	51048-0300
	CN53	23P FFC Connector	52045-2345
	CN702	6P Jumper Connector	52147-0610
	CN753	1P Pin Jack	AKB7042
	H51, H52	Fuse Clip	AKR7001

Mark	No.	Description	Part No.
⚠	T51	Standby Transformer	ATT7037
	CN601	16P Plug	KM200TA16
	CN51	AC Code Socket	RKP1751
	KN51, KN601	Earth Metal Fitting	VNF1084
	CN752	Speaker Terminal 8P	XKE3017
	CN751	Speaker Terminal 6P	XKE3018
	701	7P Cable Holder	XKP3047

C TRANS 2 ASSY

SEMICONDUCTORS

⚠	IC853	(IC Protector 1.6A)	AEK7012
⚠	IC851, IC852	(IC Protector 4A)	AEK7018

OTHERS

	851	7P Cable Holder	XKP3047

D TRANS 3 ASSY

TRANS 3 ASSY has no service part.

E REGULATOR ASSY

SEMICONDUCTORS

	IC803, IC804		NJM78M05FA
	IC801, IC805		NJM78M12FA
	IC802		NJM79M12FA
	Q801, Q803, Q805		KRA103M
	Q802, Q804, Q806		KRC102M
	D809, D810		MTZJ6.2A
⚠	D801-D804		S5688G

CAPACITORS

	C808, C811		CEAT101M10
	C805, C806, C813		CEAT101M16
	C801, C802		CEAT222M25
	C809		CEAT332M16
	C803, C804, C807, C810, C812		CKPUYF103Z25

OTHERS

	CN801	23P FFC Connector	52045-2345
	CN804	13P Plug	KM200TA13
	CN802	16P Plug	KM200TA16
	CN803	6P Plug	KM200TA6

F HASHIGETA ASSY

OTHERS

	CN1001, CN1002	8P Plug	KM200TA8

G BOARD TO BOARD ASSY

OTHERS

	CN391	11P Plug	KM200TA11
	CN390	13P Plug	KM200TA13

H AMP INPUT ASSY

SEMICONDUCTORS

	IC251		NJM4558D-D
	Q257		2SA933S
	Q251, Q256		2SC2878
	Q252		2SD1858X
	Q254		KRA103M
	Q253, Q255		KRC103M
	D251, D252		1SS133
	D253		MTZJ27D
	D254		MTZJ5.1B

CAPACITORS

	C251		CEANP470M25
	C254		CEAT101M25
	C252, C253		CKPUYF103Z25

RESISTORS

	Other Resistors		RD1/4PU□□□J

OTHERS

	CN251	3P FFC Connector	52044-0345
	CN254	19P FFC Connector	52044-1945
	CN252	3P Plug	KM250MA3L
	CN253	16P Socket	KP200TA16L

I TRANS 1 ASSY

TRANS 1 ASSY has no service part.

J DIGITAL IN ASSY

SEMICONDUCTORS

	IC1901		TC74ACT151F
	IC1902, IC1903		TC74HCU04AF

COILS AND FILTERS

	F1901-F1903	Chip Bead	DTF1067
	L1904, L1905	Chip Solid Inductor	QTL1013

CAPACITORS

	C1918		CCSRCH221J50
	C1907, C1914, C1928		CCSRCH271J50
	C1911, C1925		CCSRCH470J50
	C1916, C1926		CCSRCH471J50
	C1904, C1905, C1912		CEAT101M10
	C1915		CKSRYB102K50
	C1906, C1910, C1913, C1919, C1920		CKSRYB103K50
	C1923, C1929		CKSRYB103K50
	C1902, C1903, C1908, C1909		CKSRYB104K25
	C1921, C1922		CKSRYB104K25

RESISTORS

	Other Resistors		RS1/16S□□□J

OTHERS

	CN1901	7P FFC Connector	52045-0745
	JA1904	Opt. Link Out 12MB/s	JFJ3000-010020
	JA1902	Opt. Link In 12MB/s	JFJ4000-010020
	JA1901, JA1907	1P Pin Jack	VKB1077

K KAWA ASSY

SEMICONDUCTORS

	IC5001		BU4094BCF
	Q5001		2SC1740S
	Q5020-Q5022		DTC114TK
	Q5002		DTC143EK
	D5001, D5002		1SS355

COILS AND FILTERS

	L5001	Chip Solid Inductor	QTL1013

Mark	No.	Description	Part No.

CAPACITORS

	C5004-C5007		CCSRCH101J50
	C5012		CCSRCH471J50
	C5001, C5002		CEAT100M50
	C5003		CEAT101M16
	C5009		CKSRYB103K50
	C5011		CKSRYB104K16
	C5010		CKSRYF105Z10

RESISTORS

	Other Resistors		RS1/16S□□□J

OTHERS

	CN5004	7P FFC Connector	52044-0745
	CN5005	13P FFC Connector	52044-1345
	CN5001	17P FFC Connector	52044-1745
	CN5002	13P Socket	KP200TA13L
	CN5003	8P Socket	KP200TA8L
	5001	Screw Plate	VNE1948

L VIDEO ASSY

SEMICONDUCTORS

	IC301		NJM2296M
	Q302		2SA1515
	Q303		2SC3326
	Q301		2SC3377
	D301, D302, D305, D306		1SS355
	D303, D304		UDZS6.2B

CAPACITORS

	C347		CCSRCH470J50
	C307-C310, C312, C314, C338		CEAT470M25
	C1360, C302		CKSRYB103K50
	C339, C340		CKSRYB104K25
	C304-C306		CKSRYB221K50
	C333		CKSRYB331K50
	C311, C313		CKSRYB473K25

RESISTORS

⚠	R313, R316		RS3LMF560J
	Other Resistors		RS1/16S□□□J

OTHERS

	CN303	7P FFC Connector	52044-0745
	CN305	6P Pin Jack	AKB7123
	CN301	13P Socket	KP200TA13L
	CN302	6P Socket	KP200TA6L

M 6CH IN ASSY

SEMICONDUCTORS

	IC302, IC303		NJM4558MD

CAPACITORS

	C319, C320, C327, C328		CCSRCH101J50
	C342-C345		CCSRCH101J50
	C321, C324, C331, C332		CEAT4R7M50
	C316, C322, C323, C329, C330		CKSRYB103K50
	C317, C318, C325, C326		CKSRYB221K50

RESISTORS

	Other Resistors		RS1/16S□□□J

Mark	No.	Description	Part No.

OTHERS

	CN307	9P FFC Connector	52044-0945
	CN309	4P Pin Jack	AKB7087

N S. VIDEO ASSY

SEMICONDUCTORS

	IC351, IC352		NJM2296M
	D351-D354		1SS355

CAPACITORS

	C375, C376		CCSRCH470J50
	C352, C355, C358, C361-C363		CEAT470M25
	C366		CEAT470M25
	C372, C373, C378		CKSRYB103K50
	C351, C353, C354, C356, C357		CKSRYB104K25
	C359, C367		CKSRYB104K25
	C364, C365, C368-C371		CKSRYB221K50

RESISTORS

	Other Resistors		RS1/16S□□□J

OTHERS

	CN353	Mini DIN Socket	AKP7020
	CN352	Mini DIN Socket	AKP7043
	CN354	Connector Post	B5B-PH-K
	CN351	11P Socket	KP200TA11L
	JA351	Remote Control Jack	RKN1004

O FRONT ASSY

SEMICONDUCTORS

	IC481		BU1923F
	IC401		PDG268B
	Q481		2SA1037K
	Q483		2SC3326
	Q401, Q402, Q442, Q471		DTA124EK
	Q403, Q441, Q482		DTC143EK
	D406, D410, D442		1SS355
	D403, D405		DAN217
	D401, D404		DAP202K
	D407, D408		RB501V-40

COILS AND FILTERS

	L401, L481		LFEA2R2J

SWITCHES AND RELAYS

	S451-S468, S476		ASG1051

CAPACITORS

	C420 (220µF/35V)		ACH7101
	C404 (0.22F/5.5V)		ACH7132
	C489, C490		CCSRCH270J50
	C511		CCSRCH471J50
	C488		CCSRCH561J50
	C442		CEAL470M10
	C483		CEAT101M10
	C486		CEAT1R0M50
	C402		CEAT221M6R3
	C409, C410, C484		CEAT2R2M50
	C412		CEAT470M50
	C405		CEAT471M6R3
	C451-C453, C472, C481, C482		CKSRYB102K50
	C492, C495		CKSRYB102K50
	C401, C403, C411, C419, C441		CKSRYB103K50

Mark	No.	Description	Part No.
	C531		CKSRYB103K50
	C408, C416, C418, C471		CKSRYB104K16
	C485		CKSRYB472K50
	C406, C407		CKSRYB473K16
	RESISTORS		
	Other Resistors		RS1/16S□□□J
	OTHERS		
	471	4P Cable Holder	51063-0405
	404	7P Cable Holder	51063-0705
	CN401	17P FFC Connector	52044-1745
	CN402	28P FFC Connector	52044-2845
	V401	FL Tube	XAV3013
	401	Remote Receiver Unit	GP1U27X
	X481	(4.332MHz)	ASS7004
	X401	(7.2MHz)	ASS7039
	P R. ENCODER ASSY		
	SWITCHES AND RELAYS		
	S511		ASG1051
	S513	Rotary Encoder	XSX3005
	S512	Rotary Encoder	XSX3006
	OTHERS		
	511	7P Cable Holder	51063-0705
	Q POWER SW ASSY		
	SEMICONDUCTORS		
	D501		BR3371XJ30A
	SWITCHES AND RELAYS		
	S501		ASG1051
	RESISTORS		
	Other Resistors		RS1/16S□□□J
	OTHERS		
	501	4P Cable Holder	51063-0405
	R FRONT VIDEO ASSY		
	CAPACITORS		
	C903, C905		CEAL470M25
	C908, C911, C914		CKSRYB103K50
	C904, C906, C909, C912		CKSRYB104K25
	C901, C902		CKSRYB221K50
	C907, C910, C913		CKSRYB471K50
	RESISTORS		
	Other Resistors		RS1/16S□□□J
	OTHERS		
	JA902	Front Pin Jack 4P	AKX7014
	S H.P. ASSY		
	SEMICONDUCTORS		
	Q1551, Q1552		2SC3326
	CAPACITORS		
	C1554, C1557		CCSRCH471J50
	C1553, C1556		CKSRYB103K50

Mark	No.	Description	Part No.
	C1555, C1558		CKSRYB104K16
	C1551, C1552		CKSRYB223K50
	RESISTORS		
⚠	R1553, R1554		RS1LMF471J
⚠	R1551, R1552		RS2LMF331J
	Other Resistors		RS1/16S□□□J
	OTHERS		
	1551	6P Cable Holder	51048-0600
	JA1551	Headphone Jack	RKB1014
	KN1551	Earth Metal Fitting	VNF1084
	T TRANS 4 ASSY		
	SEMICONDUCTORS		
⚠	IC891, IC892	(IC Protector 630mA)	AEK7006
	D891		S1WB(A)60SD
	CAPACITORS		
	C891, C892		CEAT471M35
	OTHERS		
	CN891	3P FFC Connector	52045-0345
	U MECHA SW ASSY		
	SWITCHES AND RELAYS		
	S591	Push Switch	ASG7014
	CAPACITORS		
	C591, C592		CKSRYB103K50
	OTHERS		
	CN591	3P Jumper Connector	52151-0310
	V FM/AM TUNER MODULE		
	SEMICONDUCTORS		
	IC201		BA1451F
	IC202		LC72131MD
	Q201, Q204, Q205, Q601		2SC2412K
	Q202		DTA124ES
	Q203, Q602		DTC124EK
	D201		1SS133
	D601		HVU187
	D202		MTZJ5.1C
	D101		UDZS6.8B
	COILS AND FILTERS		
	L201	FM Dector Coil 10.7MHz	ATE7003
	F202	Ceramic Filter	ATF-107
	F201	Ceramic Filter	ATF-119
	F601	Antibirdy Filter	ATF7025
	F203	AM Ceramic Filter 450kHz	ATF7026
	L602		LAU2R2J
	L601		LCTA270J2520
	CAPACITORS		
	C605		CCSQCH680J50
	C212, C213, C226, C233–C235		CCSRCH101J50
	C240, C614		CCSRCH101J50
	C206		CCSRCH120D50
	C231, C232		CCSRCH150J50

Mark	No.	Description	Part No.
	C223		CEAT100M50
	C229		CEAT101M10
	C224		CEAT1R0M50
	C227		CEAT220M25
	C241		CEAT2R2M50
	C243		CEAT330M16
	C228		CEAT3R3M50
	C237		CEAT470M10
	C211		CEJA1R0M50
	C210		CEJA470M16
	C103, C104, C204, C238, C609		CKSRYB102K50
	C102, C208, C216, C217, C220		CKSRYB103K50
	C239, C242, C604, C610, C615		CKSRYB103K50
	C225		CKSRYB153K50
	C607, C608		CKSRYB182K50
	C201, C205,C214, C230, C236		CKSRYB223K50
	C244, C611		CKSRYB223K50
	C221		CKSRYB224K10
	C603		CKSRYB392K50
	C215		CKSRYB471K50
	C202,C222		CKSRYB473K16
	C606		CKSRYB561K16
	RESISTORS		
	R211		RD1/4PU221J
	R221		RD1/4PU222J
	R233		RD1/4PU391J
	R243		RS1/10S0R0J
	R103, R104		RS1/10S221J
	Other Resistors		RS1/16S□□□J
	OTHERS		
	CN201	13P FFC Connector	52044-1345
	BN201	2P Terminal	AKA7002
		SHIELD CASE T	ANK7072
		SHIELD CASE B	ANK7073
	X201	(7.2000MHz)	ASS1093
		FM FRONTEND	AXF7005
		AM RF TUNING BLOCK	AXX7072

6. ADJUSTMENT

■ AM Tuner Section

• There is no adjustment in the AM tuner.

■ FM Tuner Section

• Set the mode selector to FM BAND.
• Connect the wiring as shown in Fig. 1.

Note : Even if the TUNER MODULE is disconnected, other functions can operate.

[ANT. INPUT SIGNAL]
• Frequency : 98 MHz
• Modulation : OFF
• Input Level : 80 dBμV

Step No.	Adjustment Title	Adjustment point	Measurement point	Adjustment value	Adjustment State
1	T-METER Adjustment	L201	IC201 Pin 21/Pin23	0 ± 50mV	Adjust L201 so that the DC voltage between Pin 21 and Pin 23 of IC201 (Test point "Vtm") gets within 0 ± 50mV.

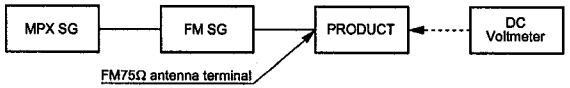


Fig.1 Adjustment Wiring Diagram

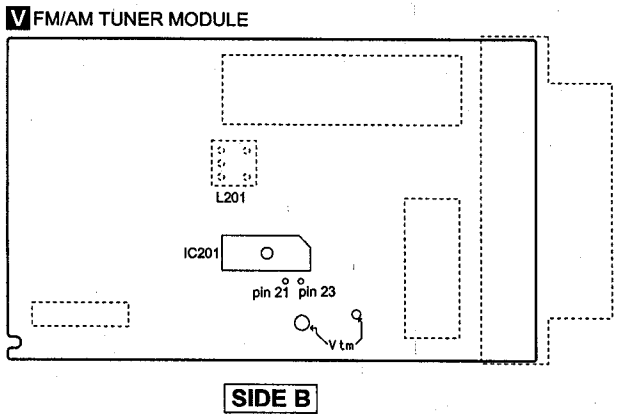
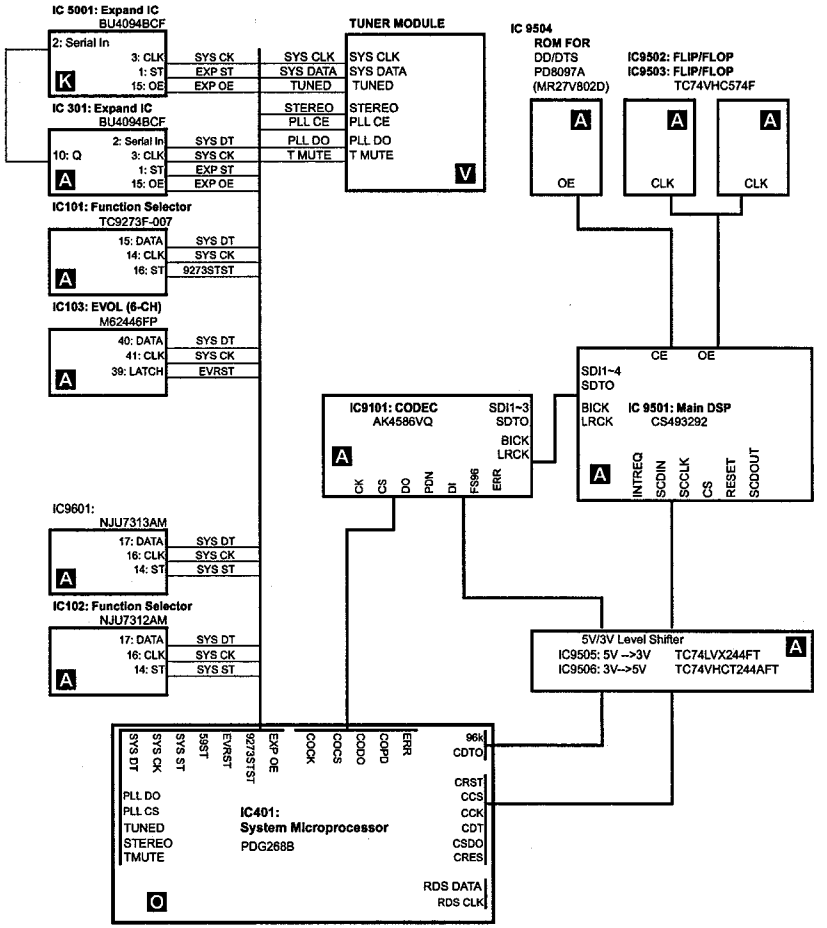


Fig.2 Adjustment Point

7. GENERAL INFORMATION

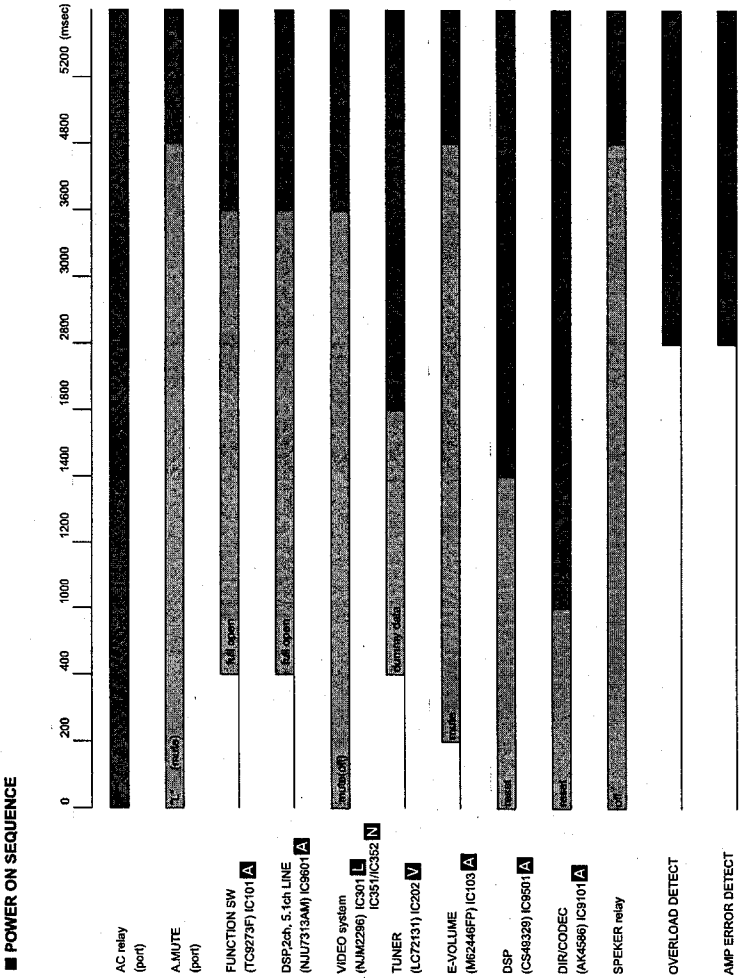
7.1 DIAGNOSIS

7.1.1 U-COM BLOCKDIAGRAM



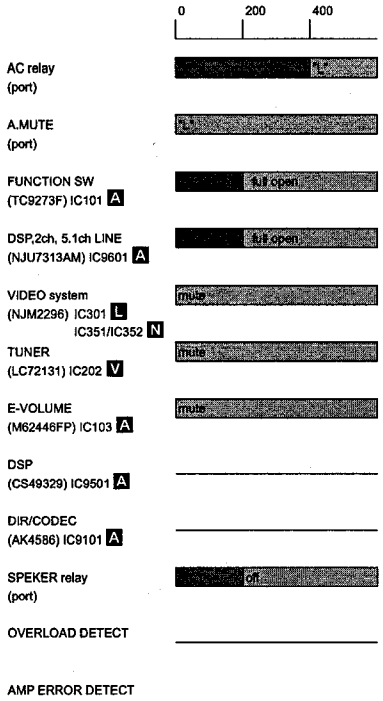
7.1.2 POWER ON AND OFF SEQUENCE

■ POWER ON SEQUENCE



VSX-D711-K, VSX-D711-S

■ POWER OFF SEQUENCE



7.1.3 PROTECTION CIRCUIT

1. DC abnormal detection

It processes more preferentially than overload detection.

When detected DC abnormal, A.MUTE* is on and speaker relay is off, then flash "AMP_ERR" on display.

*A.MUTE : Audio Mute Command

↓

An unusual state continues for 3 seconds.

↓ continuation

A power supply is shut off.

↓

The power key cannot be effective for 60 seconds

↓ return

A program is performed from the beginning.

If the AC plug is pulled off within 60 sec, and then it is plugged in again, the unit will be reset for 60 sec.

2. Overload detection

When detected overload, A.MUTE* is on and speaker relay is off, then flash "OVERLOAD" on display.

↓

An unusual state continues for 3 seconds.

↓ continuation

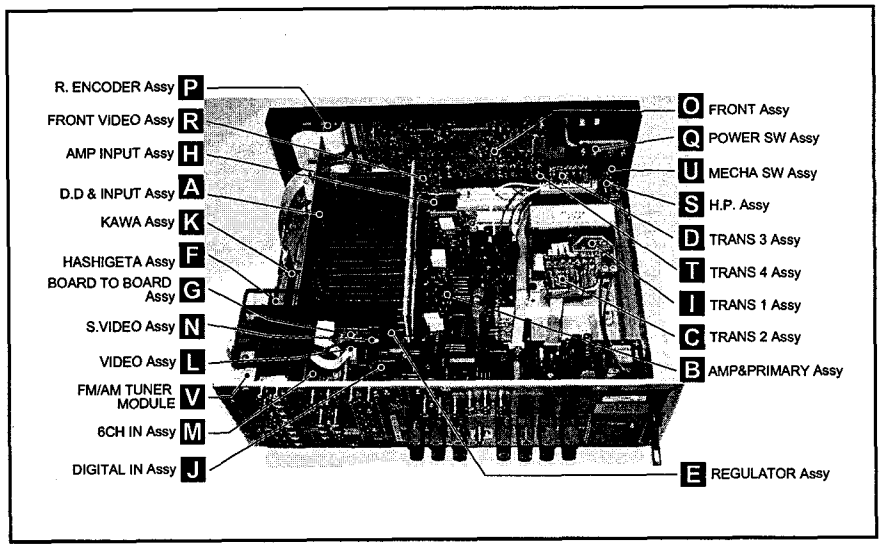
A power supply is shut off.

↓ return

A power supply is shut off even if it returns.

7.1.4 PCB LOCATION

■ PCB Location



Note : D.D & INPUT Assy
The pin of function IC (IC101 TC9273F-007) can be checked from side-A by the through-hole round.
The pin No. is printed on the side-A. (Refer to P.41.)

Even if the FM/AM TUNER MODULE is disconnected, other functions can operate.

7.2 PARTS

7.2.1 IC

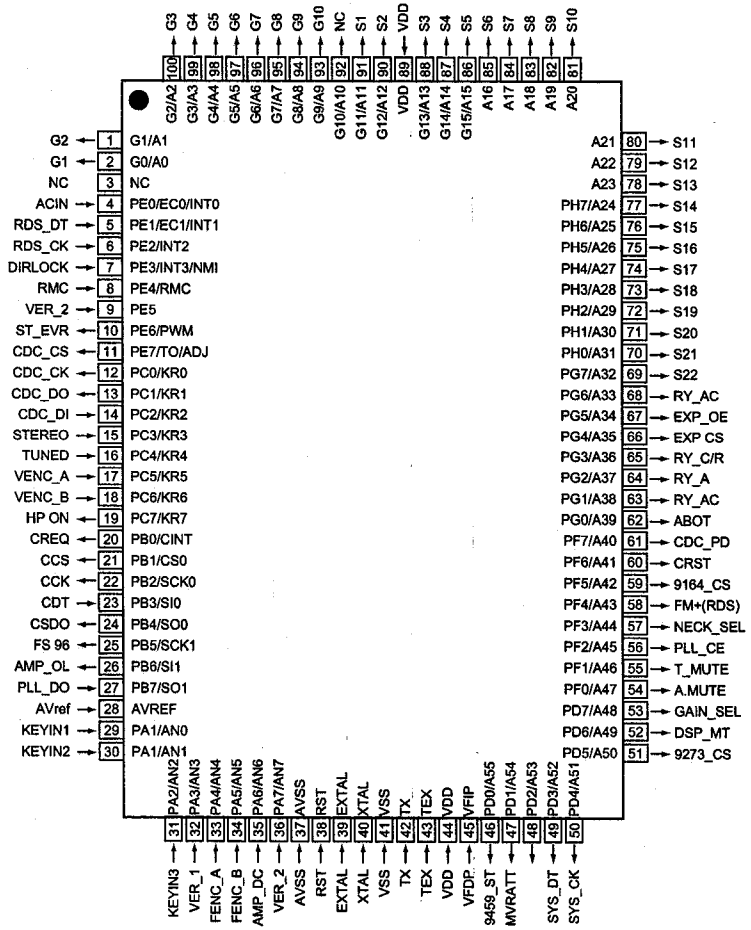
- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.
- **List of IC**

PDG268A, AK4586VQ, BD3812F, NJU7312AM, PD8097A, AK4382

■ PDG268A (FRONT ASSY : IC401)

- **System Control MCU**

■ Pin Arrangement (Top View)



- **Pin Function**

No.	Pin Name	I/O	Pin Function	Active
1	G2	O	Grid output 2	H
2	G1	O	Grid output 1	H
3	NC	–	Connect to Vdd	
4	ACIN	I	Input AC pulse	
5	RDS_DT	I	Serial control DATA signal of RDS communication	
6	RDS_CK	I	Serial control CLOCK signal of RDS communication (Use external interrupt)	
7	DIRLOCK	I	ERR/OVER input from CODEC	
8	RMC	I	Remote control signal input (no-carrier signal)	
9	VER_2	I	Destination switch 2	
10	ST_EVR	O	Strobe of communication for E-volume	H
11	CDC_CS	O	Chip serect for CODEC	
12	CDC_CK	O	Control clock for CODEC & TC9164	
13	CDC_DO	O	Control data for CODEC & TC9164	
14	CDC DI	I	Data input from DIR	
15	STEREO	I	Signal to switch Stereo / Monoral	
16	TUNED	I	Condition of TUNED	
17	VENC_A	I	Input from rotary encoder of E-volume (A)	
18	VENC_B	I	Input from rotary encoder of E-volume (B)	
19	HP ON	I	Headphone detect	L
20	CREQ	I	Request for DSP	L
21	CCS	O	Chip select for DSP	L
22	CCK	O	Clock signal for DSP	H
23	CDT	I	DATA input signal for DSP	
24	CSDO	O	DATA output signal for DSP	H
25	FS 96	I	96 k	H
26	AMP_OL	I	Detect overload of protection circuit (L: overload)	H
27	PLL_DO	I	Data input signal for communication with LC72131 (Tuner)	
28	AVref	–	Connect to Vdd	
29	KEYIN1	I	Key input A/D conversion port 1	
30	KEYIN2	I	Key input A/D conversion port 2	
31	KEYIN3	I	Key input A/D conversion port 3	
32	VER_1	I	Input 1 to switch region (A/D input)	
33	FENC_A	I	FUNC Rotary encoder signal input (A)	
34	FENC_B	I	FUNC Rotary encoder signal input (B)	
35	AMP_DC	I	Detect trouble DC of protection circuit (L : Trouble)	L
36	VER_2	I	Input 2 to switch region (A/D input)	L
37	AVSS	–	Connect to Vss	
38	RST	–	Reset	
39	EXTAL	–	Connect to the oscillator (7.2MHz)	
40	XTAL	–		
41	VSS	–	Connect to Vss	
42	TX	–	NC	
43	TEX	–	Connect to Vss	
44	VDD	–	+5V	
45	VFDP	–	-30V	
46	9459_ST	O	Strobe for E-volume (TC9459) of SB	
47	MVRATT	O	ATT control of master volume for E-volume (less than -15dB : L)	H
48				H
49	SYS_DT	O	Data signal for communication with M62446, TC9163, TC9164 and PLL	H
50	SYS_CK	O	Clock signal for communication with M62446, TC9163, TC9164 and PLL	H

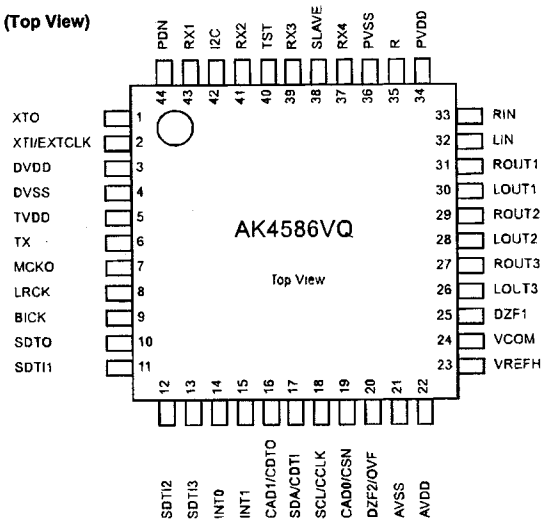
• Pin Function

No.	Pin Name	I/O	Pin Function	Active
51	9273_CS	O	Chip select for TC9273	H
52	DSP_MT	O	DSP Mute (ASSY mute)	H
53	GAIN_SEL	O	Gain select (5.1ch and Stereo of analog input : H)	H
54	AMUTE	O	Audio mute	H
55	T_MUTE	O	Tuner mute	H
56	PLL_CE	O	Chip select for communication to LC72131 (Tuner)	
57	NECK_SEL	O	5.1ch, surround mode and A+B Stereo : H / Stereo : L	H
58	FM+(RDS)	O	Tr switch ON/OFF for power supply of RDS decoder (L : AM, power OFF , H : Other)	H
59	9164_ CS	O	TC9163, TC9164 Chip select	
60	CRST	O	Reset for DSP	
61	CDC_PD	O	Power down for CODEC	
62	ABOT	O	Abort for DSP	H
63	RY_AC	O	AC relay ON/OFF	H
64	RY_A	O	Speaker A relay ON/OFF	H
65	RY_C/R	O	Rear/Center Speaker relay ON/OFF	H
66	EXP CS	O	Chip select for expand IC	H
67	EXP OE	O	Chip select for expand IC	H
68	RY_AC	O	AC relay ON/OFF control	H
69	S22	O	Segment output 22	H
70	S21		Segment output 21	
71	S20		Segment output 20	
72	S19		Segment output 19	
73	S18		Segment output 18	
74	S17		Segment output 17	
75	S16		Segment output 16	
76	S15		Segment output 15	
77	S14		Segment output 14	
78	S13		Segment output 13	
79	S12		Segment output 12	
80	S11		Segment output 11	
81	S10		Segment output 10	
82	S9		Segment output 9	
83	S8		Segment output 8	
84	S7		Segment output 7	
85	S6		Segment output 6	
86	S5		Segment output 5	
87	S4		Segment output 4	
88	S3		Segment output 3	
89	VDD	–	5V	
90	S2	O	Segment output 2	H
91	S1		Segment output 1	
92	Not used	O	Not used (Fixed Vfdp)	
93	G10	O	Grid output 10	H
94	G9		Grid output 9	
95	G8		Grid output 8	
96	G7		Grid output 7	
97	G6		Grid output 6	
98	G5		Grid output 5	
99	G4		Grid output 4	
100	G3		Grid output 3	

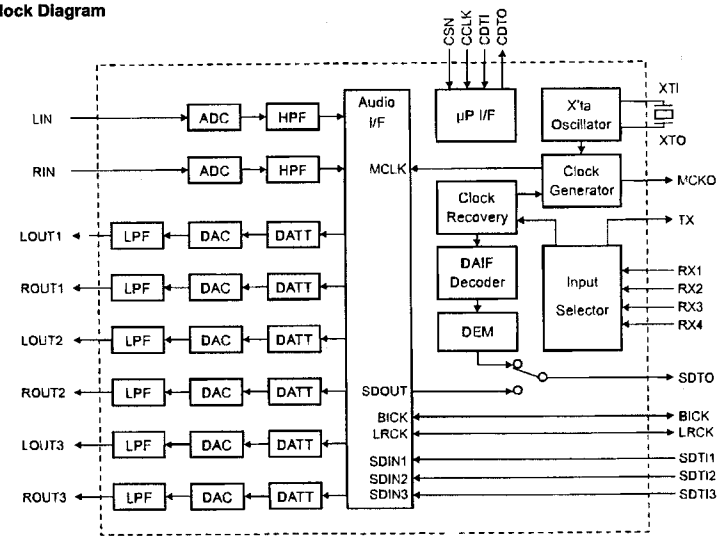
■ AK4586VQ (DD&INPUT ASSY : IC9101)

• 96kHz 24Bit 6-channel CODEC with DIR

■ Pin Arrangement (Top View)



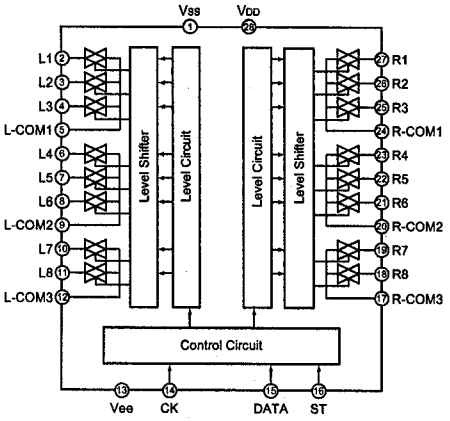
■ Block Diagram



■ NJU7312AM (D.D & INPUT ASSY : IC102)

• Analog Switch Array

• Block Diagram



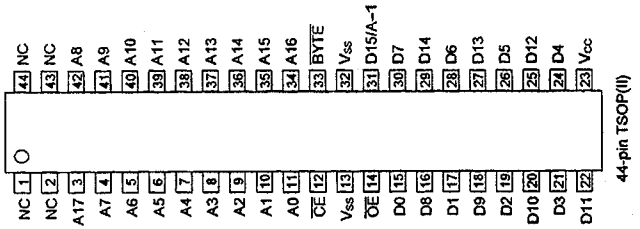
• Pin Function

No.	Pin Name	Function
1	VSS	Minus Power Supply
2, 27	L1,R1	Input and Output
3, 26	L2,R2	
4, 25	L3,R3	
5, 24	COM1	
6, 23	L4,R4	
7, 22	L5,R5	
8, 21	L6,R6	
9, 20	COM2	
10, 19	L7,R7	
21, 18	L8,R8	
26, 17	COM3	
13	GND	Digital Ground
14	CK	Clock Input
15	DATA	Data Input
16	ST	Strobe Input
28	VDD	Plus Power Supply

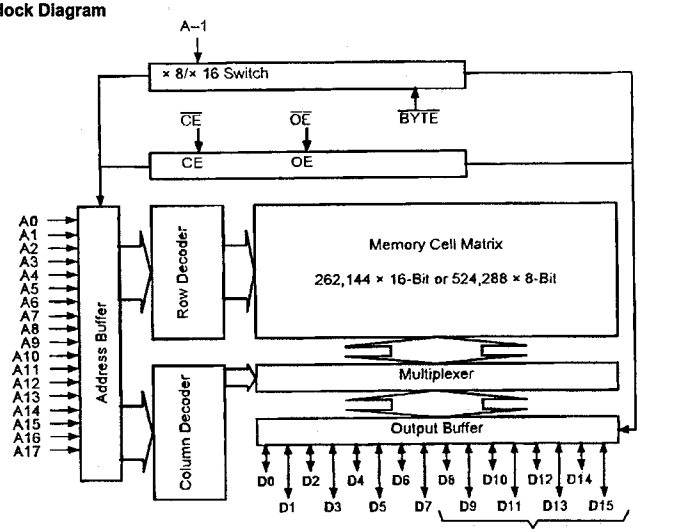
■ PD8097A (D.D & INPUT ASSY : IC9504)

• 4Mb P2ROM

■ Pin Arrangement (Top View)



■ Block Diagram



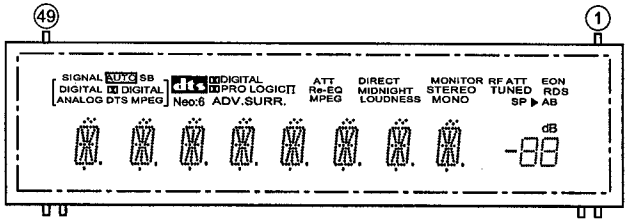
In 8-bit output mode, these pins are placed in a high-Z state and pin D15 functions as the A-1 address pin.

7.2.2 DISPLAY

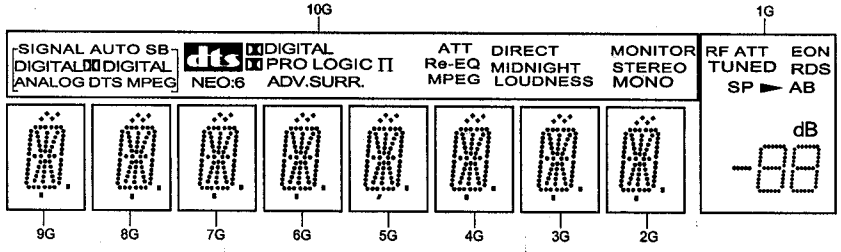
■ XAV3013 (FRONT ASSY : V401)

• FL DISPLAY

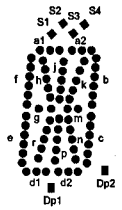
• Pin Assignment



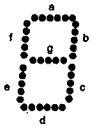
• Grid Assignment



• Segment Designation



(9G to 2G)



(1G)

• Pin Connection

Pin No.	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25
Connection	F2	F2	NP	NP	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2
Pin No.	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Connection	P1	NX	NX	NX	NX	NX	NX	NX	NX	NX	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1	

NOTE
1) F1, F2..... Filament
2) NP..... No pin
3) NX..... No extend pin
4) DL..... Datum Line
5) 1G to 10G..... Grid
6) Field of vision is a minimum of 21.8° from the lower side.

• Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S1	a1	a1	a1	a1	a1	a1	a1	a1	RFATT
P2	AUTO	a2	a2	a2	a2	a2	a2	a2	a2	EON
P3	SB	h	h	h	h	h	h	h	h	O
P4	DIGITAL	j	j	j	j	j	j	j	j	TUNED
P5	ANALOG	k	k	k	k	k	k	k	k	RDS
P6	DIGITAL (L)	b	b	b	b	b	b	b	b	S1
P7	DTS	f	f	f	f	f	f	f	f	A
P8	MPEG	m	m	m	m	m	m	m	m	B
P9	dts	g	g	g	g	g	g	g	g	1a
P10	MPEG	c	c	c	c	c	c	c	c	1b
P11	DIGITAL (R)	e	e	e	e	e	e	e	e	1f
P12	PROLOGIC II	r	r	r	r	r	r	r	r	1g
P13	Neo:6	p	p	p	p	p	p	p	p	1c
P14	ATT	n	n	n	n	n	n	n	n	1e
P15	ADV.SURR.	d1	d1	d1	d1	d1	d1	d1	d1	1d
P16	Re-EQ	d2	d2	d2	d2	d2	d2	d2	d2	2a
P17	DIRECT	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	Dp2	2b
P18	MIDNIGHT	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	Dp1	2f
P19	LOUDNESS	S1	S1	S1	S1	S1	S1	S1	S1	2g
P20	MONITOR	S4	S4	S4	S4	S4	S4	S4	S4	2c
P21	STEREO	S2	S2	S2	S2	S2	S2	S2	S2	2e
P22	MONO	S3	S3	S3	S3	S3	S3	S3	S3	2d

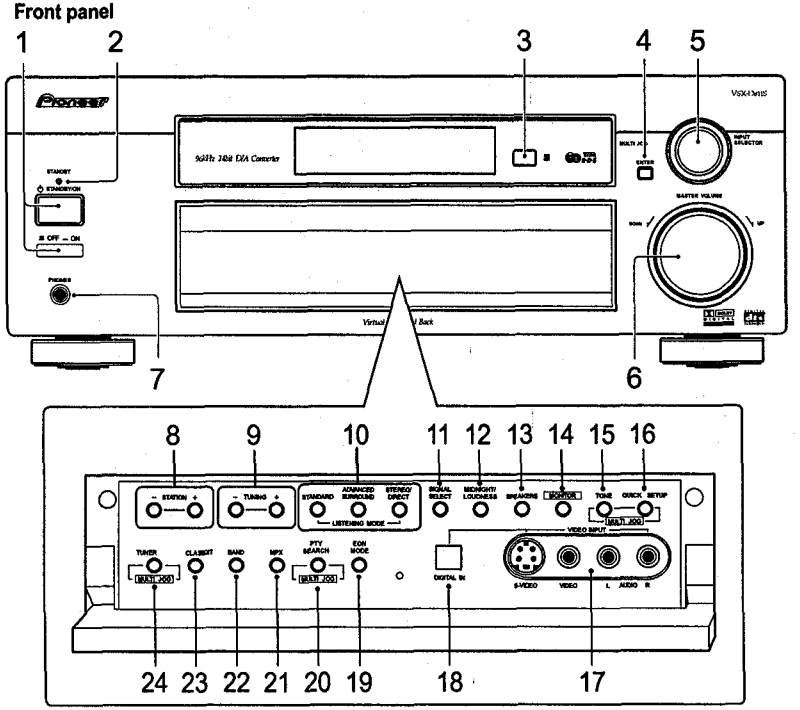
7.3 CLEANING

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fan	Cleaning paper : GED-008

8. PANEL FACILITIES

Front panel



1 ⏻ STANDBY/ON-power ■ OFF ▬ ON button
STANDBY/ON switches the receiver between on and standby. The power button switches the receiver off.

2 STANDBY indicator
Lights when the receiver is in standby.

3 Remote sensor
Receives the signals from the remote control.

4 ENTER

5 MULTI JOG/INPUT SELECTOR dial
The MULTI JOG/INPUT SELECTOR dial performs a number of tasks. Use it to select options after pressing TONE CONTROL, QUICK SETUP, TUNER EDIT or PTY SEARCH.

6 MASTER VOLUME

7 PHONES jack
Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

8 STATION (+/–) buttons
Selects station presets when using the tuner.

9 TUNING buttons
Selects the frequency when using the tuner.

10 LISTENING MODE buttons

STANDARD
Press for Standard decoding and to switch between the various Pro Logic II options.

ADVANCED SURROUND
Use to switch between the various surround modes.

STEREO/DIRECT
Switches direct playback on or off. Direct playback bypasses the tone controls and channel levels for the most accurate reproduction of a source.

11 SIGNAL SELECT
Use to select between input signals.

12 MIDNIGHT/LOUDNESS
Use Midnight when listening to movie soundtracks at low volume.
Use Loudness to boost the bass and treble at low volume.

13 SPEAKERS
Use to cycle through the speaker system: A → B → A+B

14 MONITOR
Press to switch tape monitoring on/off.

15 TONE
Press this button to access the bass and treble controls, which you can then adjust with the MULTI JOG/INPUT SELECTOR dial.

16 QUICK SETUP

17 VIDEO INPUT

18 DIGITAL IN (VSX-D811S only)

19 EON MODE
Use to search for different programs that are transmitting traffic or news information (this search method is called EON).

20 PTY SEARCH
Use to search for different program types in RDS mode.

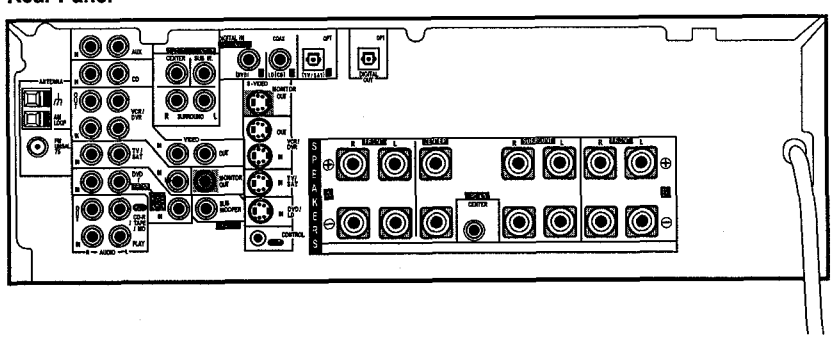
21 MPX
Press to receive a radio broadcast in mono.

22 BAND
Switches between AM and FM radio bands.

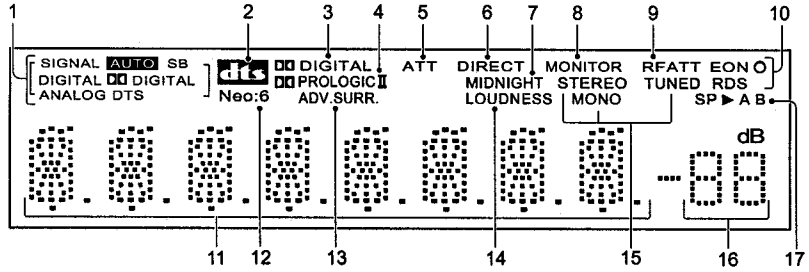
23 CLASS
Switches between the three banks (classes) of station presets.

24 TUNER EDIT
Use for memorizing and naming stations.

Rear Panel



Display



1 SIGNAL SELECT indicators
Lights to indicate the type of input signal assigned for the current component:

AUTO
Lights when AUTO signal select is on

SB (VSX-D811S only)
Depending on the source, this lights when a signal with surround back channel encoding is detected.

DIGITAL
Lights when a digital audio signal is detected.

DD DIGITAL
Lights when a Dolby Digital encoded signal is detected.

ANALOG
Lights when an analog signal is detected.

DTS
Lights when a source with DTS encoded audio signals is detected.

2 DTS
When the Standard mode of the receiver is on, this lights to indicate decoding of a DTS signal.

3 DD DIGITAL
When the Standard mode of the receiver is on, this lights to indicate decoding of a Dolby Digital signal.

4 DD PRO LOGIC II
When the Standard mode of the receiver is on, this lights to indicate Pro Logic II decoding.

5 ATT
Lights when INPUT ATT is used to attenuate (reduce) the level of the analog input signal.

6 DIRECT
Lights when source direct playback is in use. This function bypasses all tone, balance, Advanced Surround, and Dolby Surround effects.

7 MIDNIGHT
Lights during Midnight listening.

8 MONITOR
Lights when MONITOR is selected.

9 RF ATT
Lights when the RF ATT is on.

10 EON and O
The O indicator lights to inform you that the currently tuned station carries the EON data service. When the EON mode is set, the EON indicator lights, but during actual reception of an EON broadcast the EON indicator will flash.

RDS
Lights when an RDS broadcast is received.

11 Character display

12 Neo:6 (VSX-D811S only)
Lights during NEO:6 processing

13 ADV. SURR (Advanced Surround)
Lights when one of the Advanced Surround modes has been selected.

14 LOUDNESS
Lights when LOUDNESS has been selected.

15 TUNER indicators

STEREO:
Lights when a stereo FM broadcast is being received in auto stereo mode.

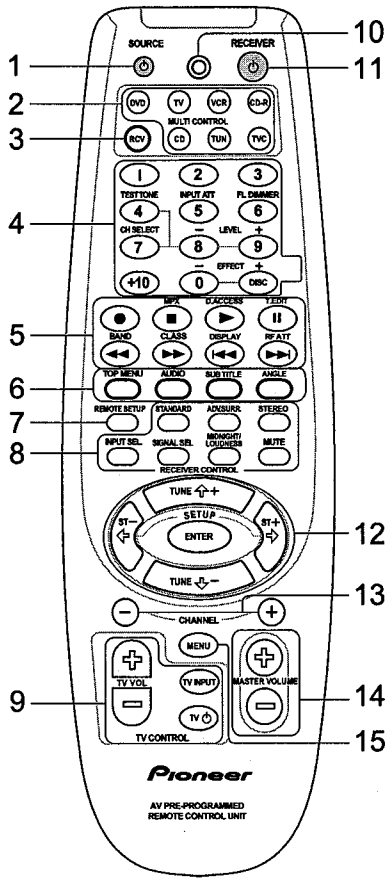
MONO:
Lights when the mono mode is set using the MPX button.

TUNED:
Lights when a broadcast is being received.

16 Master volume level
Shows the overall volume level. —dB indicates the minimum level, and –0 dB indicates the maximum level.
Depending on your level settings for each channel, the maximum level can range between –10 dB and –0 dB.

17 Speaker indicator
Shows the speaker system currently in use.

Remote control



1 ⏻ SOURCE
Press to turn on/off other components connected to the receiver.

2 MULTI CONTROL buttons
Press to select control of other components (see Controlling the rest of your system).

3 RCV
Use to switch to the receiver controls on the remote control (ex. INPUT ATT, FL. DIMMER). Also use this button to set up surround sound.

4 Number buttons/Receiver controls
Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

DISC
The button's use depends on the component selected.

Receiver Controls
Press the RCV button first to access the functions above the number buttons. The display flashes when it isn't possible to use a function.

TEST TONE
Sounds the test tone when setting up the surround sound of the receiver.

INPUT ATT
Attenuates (lowers) the level of an analog input signal to prevent distortion.

FL DIMMER
Dims or brightens the display.

CH SELECT
Selects a speaker when setting up the surround sound of the receiver.

LEVEL +/–
Adjusts the levels of the surround sound of the receiver.

EFFECT +/– buttons
Adds or subtracts the amount of effect with different advanced listening modes (except 5 or 6 Ch Stereo and Virtual SB).

5 Component/Tuner controls
The main buttons (▶, ■, etc.) are used to control a component after you have selected it using the MULTI CONTROL buttons. The tuner/DTV controls above these buttons can be accessed after you have selected the corresponding MULTI CONTROL button (TUNER or DVD (when connected to DTV)).

MPX
Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality. Also acts as a stop button for CDs, tapes, or DVDs.

D. ACCESS
After pressing, you can access a radio station directly using the number buttons.

T. EDIT
Use for memorizing and naming stations.

BAND
Switches between the tuner AM and FM bands.

CLASS
Switches between the three banks (classes) of radio station presets.

DISPLAY
Use to switch the display between tuner displays (including RDS information).

RF ATT
Use to lower the input level of a radio signal that is too powerful or contains interference that causes the sound to distort.

6 DVD controls (Press DVD first to access)
These controls will also function as DTV controls, depending on the component you've selected.

TOP MENU
Displays the disc 'top' menu of a DVD.

AUDIO
Changes the audio language or channel.

SUBTITLE
Displays/changes the subtitles included in multilingual DVD-Video discs.

ANGLE
Switches camera angles on discs with multi-angle scenes.

7 REMOTE SETUP
Press this button to set up the remote control to control other components.

8 RECEIVER CONTROL buttons

STANDARD
Press to switch between the various Dolby/DTS modes.

ADV. SURR.
Use to switch between the various surround modes.

STEREO
Switches direct playback on or off. Direct playback bypasses the tone controls and channel levels for the most accurate reproduction of a source.

INPUT SEL
Use to select the input source.

SIGNAL SEL
Use to select between input signals.

MIDNIGHT/LOUDNESS
Switches to Midnight or Loudness listening.

MUTE
Mutes the sound (or restores the sound if it has been muted).

9 TV control buttons
These buttons are dedicated to control the TV assigned to the TVC button. Thus if you only have one TV to hook up to this system assign it to the TVC MULTI CONTROL button. If you have two TVs, assign the main TV to the TVC button.

TV VOL +/–
Use to adjust the volume on your TV.

TV INPUT
Use select the TV function.

TV ⏻
Use to turn on/off the power of the TV.

10 LED DISPLAY
This display flashes when a command is sent from the remote control.

11 RECEIVER ⏻
This switches between standby and on for this receiver.

12 ⇦⇨⇩⇧ (TUNE/ST +/–) /ENTER
Use the arrow buttons when setting up your surround sound system (see pages 65–76). Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the TUNE +/– buttons to find radio frequencies and use ST +/– to find preset stations.

13 CHANNEL +/–
Select radio station presets. Also skip tracks backward or forward on CDs, DVDs, etc.

14 MASTER VOLUME +/–
Use to set the listening volume.

15 MENU button
Displays the disc menu of DVD-Video discs. It also displays TV and DTV menus.